Did you ever thought about a simple to install and nearly Plug & Play setup of a BASIC Linear IPTV System to a reasonable price? Upgradeable to grow with your demands...

Here we go:



Not included



OMNISCREEN M15 SetTopBox Digital-Signage / Multicast IPTV-Box



Budgetary calculation basic system 100 rooms: Preiskalkulation (Listenpreis in EURO) Basis System, 100 STB / Rooms

1x	BMS-0932K SAT Multiswitch 19", 2x SAT positions in, 32 RF-outputs	790,00 €***
1x	IGS-924, 24 SAT Transponder -> max. 2x 512 Streaming multicast channels 2x GBic out	4990,00 €***
1x	IGS-700-8, 8 SAT Transponder -> max. 512 Streaming multicast channels 1x GBic out, 4x CI-CAM	3490,00 €***
1x	MicroTik Router RB 3011*	155,-€ **
1x	ARUBA HP Procurve 2530 24G*	250, 500,- €**
2x	ARUBA HP Procurve 2530 48G* (can be w/o G for the STB's) per pcs.: 600-1000, €	2000,-€**
100x	M15 STB	3990,-€***

Total***: 13260,- EURO Net (Netto)

*) Router and Switches are not delivered by IRENIS GmbH but from your Service supplier/installation company

**) Market prices may vary and are taken from end customer portals like Amazon

***) List price - please ask for the special bundle-discounts to info@blankom.de

- w/o cabling from SAT dishes (not included - so consider 2 80cm – 1.2m dishes and Quattro LNBs with masts and cables...)

- w/o Network cabling and wall outlets

- w/o TV Sets

- optional an Encoder – Streamer for an Info-Channel



The purpose of this P&P System is to get a customized Channel/Transponder List from the final customer fitting to 2...4 SAT-Positions to his international TV channel demand's to be provided depending on the Satellites in reach. BLANKOM or regional partners will prepare this setup upfront - if possible of receiving these Sat-Positions (depending on particular beam ranges). Both – the SAT streamer and the STB-Channels need to be harmonized and pre-stored. If after installation, changes should be made: See a description 'how-to' later on in this document.

STB = Set Top Box

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Specifications are subject to change without notice. Every attempt has been made to make this manual complete, accurate, and up-to-date. Readers are cautioned, however, that IRENIS / BLANKOM / Omniscreen reserves the right to make changes without notice and shall not be responsible for any damages, including indirect, incidental or consequential damages, caused by reliance on the material presented, including, but not limited to, omissions, typographical, arithmetical, or listing errors in the material.

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STB USER GUIDE – IPTV Digital Signage - Bedienungsanleitung



Please note: Bitte beachten

This STB has been specially modified to operate as a Digital Signage STB. It is pre- plug&play configured to work with a DHCP Ethernet connection and gets its IP address from this DHCP Server (or a Router) from your internal Network.

So please connect an Ethernet (100Mb/s) before plugging in the power. It will always start with the first Channel which can be configured by FTP-file exchange to this device. The IP-Address must be known for this purpose and the easiest way is to check your Router for the DHCP-assigned IP address of it.

Diese STB wurde speziell für den Betrieb als Digital Signage STB modifiziert. Sie ist für den Betrieb mit einer DHCP-Ethernet-Verbindung vorkonfiguriert und erhält ihre IP-Adresse von diesem DHCP-Server (oder einem Router) aus Ihrem internen Netzwerk. Schließen Sie also bitte eine Ethernet-Verbindung (100Mb/s) an, bevor Sie das Gerät an die Stromversorgung anschließen.

Die Box wird immer mit dem ersten Kanal starten. Die Kanal – und Sparten-Liste kann per FTP-Dateiaustausch zu diesem Gerät konfiguriert werden. Die IP-Adresse muß dazu bekannt sein, und der einfachste Weg ist, Ihren Router auf die ihm per DHCP zugewiesene IP-Adresse zu überprüfen - > Alles Weitere in den Folgeseiten...

Remark: The Box internal Linux based OS and Broadcom chipset support only Multicast streams with UDP like udp://239.1.1.1:12345 and the decoder supports

A Video resolution of max. 1080p60 Full HD in h.264 AVC down to SD formats also in MPEG2. (*No HEVC h.265 support*)

Das Box-interne Linux-basierte Betriebssystem und der Broadcom-Chipsatz unterstützen nur Multicast-Streams mit UDP wie udp://239.1.1.1.1:12345 und der Decoder unterstützt eine Videoauflösung von max. 1920x 1080p60 Full HD in h.264 AVC bis hinunter zu SD-Formaten auch in MPEG2. (Keine HEVC h.265-Unterstützung)



CONTENT - INHALT

- 1. Safety Instructions / Sicherheitshinweise
- 2. Package Contents / Inhalt des Pakets
- 3. Placement / Aufstellen
- 4. Getting Started / Schnellstart
- 5. Remote Control / Fernbedienung
- 6. Pairing the remote control with your TV / Programmierung der Fernbedienung zum TV-Model
- 7. Television brand codes / TV-Hersteller- Liste der Codes

IMPORTANT SAFETY INSTRUCTIONS

It is imperative that you heed all the safety advice and warnings.

This helps to prevent accidents and bodily injuries as well as property damages. Please read this chapter carefully and follow all instructions. This ensures the reliable operation and long lifespan of your SetTopBox. Retain the packaging and instruction manual.

TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

- Do not use the SetTopBox near water.

- Clean only with dry cloth.
- Install in accordance with the manufacturer's instructions.

- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

- The operating temperature of the SetTopBox is 0°C to +40°C and relative humidity of 10% to 80% (non-condensing).

- Protect the power cord from being walked on or pinched, particularly plugs, convenience receptacles, and the point where they exist the device.

- Unplug the SetTopBox during lighting storms or when not used for long periods of time.
- No naked flame sources, such as lighted candles, should be near the SetTopBox.

- Do not expose the SetTopBox to dripping or splashing and do not place objects filled with liquids, such as vases, on the power supply.

Batteries ... will not be delivered with the Remote-Control because of EU rules

- Do not expose batteries to excessive heat such as sunshine, fire or the like.

- Do not open or perforate the batteries.
- Remove the batteries if the remote control will remain unused over a longer period of time.
- Remove exhausted batteries immediately.
- Do not mix new and old batteries.



- Do not mix rechargeable and disposable batteries.

- Do not mix batteries of different manufacturers.

- Danger of an explosion exists during incorrect exchange of the batteries or insertion of the wrong type of batteries.

- Dispose of used batteries thoughtfully

WARRANTY WARNING: This STB is offered as described in the corresponding flyer for very low price or in bundle with other BLANKOM Products like encoder-streamer. Therefore we are not offering any warranty for these STB's. Anyway, if after delivery it would not work we will exchange it for free.

All repairs need to be carried out by a qualified technician. DO NOT try to repair or replace any part of your SetTopBox yourself. Not only it is dangerous, but any attempt to open, modify or dismantle your SetTopBox or its software will immediately void your warranty, subject to any other rights or remedies that are available to you under law, which cannot be excluded.

WICHTIGE SICHERHEITSHINWEISE

Es ist unbedingt erforderlich, daß Sie alle Sicherheitsratschläge und Warnungen beachten. Dies hilft, Unfälle und Verletzungen sowie Sachschäden zu vermeiden. Bitte lesen Sie dieses Kapitel sorgfältig durch und befolgen Sie alle Anweisungen. Dies gewährleistet den zuverlässigen Betrieb und die lange Lebensdauer Ihrer SetTopBox. Bewahren Sie die Verpackung und die Bedienungsanleitung auf.

ZUR VERRINGERUNG DER GEFAHR EINES BRANDES ODER ELEKTRISCHEN SCHOCKS, SETZEN SIE DIESER BOX KEINEM REGEN ODER FEUCHTIGKEIT AUS.

- Verwenden Sie die SetTopBox nicht in der Nähe von Wasser.

- Reinigen Sie sie nur mit einem trockenen Tuch.

- Installieren Sie die SetTopBox gemäß den Anweisungen des Herstellers.

- Installieren Sie die SetTopBox nicht in der Nähe von Wärmequellen wie Heizkörpern, Wärmespeichern, Öfen oder anderen Geräten (einschließlich Verstärkern), die Wärme erzeugen.

- Die Betriebstemperatur der SetTopBox beträgt 0°C bis +40°C und die relative Feuchtigkeit von 10% bis 80% (nicht kondensierend).

- Schützen Sie das Netzkabel vor dem Betreten oder Einklemmen, insbesondere Stecker, Komfortbuchsen und die Stelle, an der sich das Gerät befindet.

- Ziehen Sie den Stecker der SetTopBox bei Gewitter oder bei längerer Nichtbenutzung aus der Steckdose.

- In der Nähe der SetTopBox sollten sich keine offenen Flammenquellen, wie z.B. brennende Kerzen, befinden.

- Setzen Sie die SetTopBox nicht Tropfen oder Spritzern aus, und stellen Sie keine mit Flüssigkeiten gefüllten Gegenstände, wie z. B. Vasen, auf die Stromversorgung.



Batterien werden nicht mitgeliefert: EU-Entsorgung und Rücknahmeverpflichtungen stehen dem Aufwand gegenüber

- Setzen Sie die Batterien nicht übermäßiger Hitze wie z.B. Sonneneinstrahlung, Feuer oder ähnlichem aus.

- Öffnen oder perforieren Sie die Batterien nicht.

- Entfernen Sie die Batterien, wenn die Fernbedienung über einen längeren Zeitraum nicht benutzt wird.

- Entfernen Sie verbrauchte Batterien sofort.
- Mischen Sie keine neuen und alten Batterien.
- Mischen Sie keine wieder-aufladbaren und Einweg-Batterien.
- Mischen Sie keine Batterien verschiedener Hersteller.

- Bei falschem Austausch der Batterien oder dem Einlegen des falschen Batterietyps besteht Explosionsgefahr.

- Entsorgen Sie gebrauchte Batterien sorgfältig.

GARANTIE-WARNUNG:

Diese STB wird als sogenanntes Spezial-Angebot zu einem sehr günstigen Preis oder im Bundle mit anderen BLANKOM Produkten wie z.B. Encoder-Streamer angeboten. Daher bieten wir für diese STB's keine normale Garantie an. Trotzdem: Falls zufällig eine nach dem Anschließen nicht funktioniert: Wir tauschen die aus. Natürlich sind wir gemäß der gelten Verordnungen verpflichtet ,Altgeräte' entsprechend zu behandeln bsp.: WEEE, VERE, ...

Alle Reparaturen müssen von einem qualifizierten Techniker durchgeführt werden. Versuchen Sie NICHT, irgendein Teil Ihrer SetTopBox selbst zu reparieren oder zu ersetzen. Es ist nicht nur gefährlich, sondern jeder Versuch, Ihre SetTopBox oder ihre Software zu öffnen, zu modifizieren oder zu zerlegen, führt zum sofortigen Erlöschen Ihrer <u>nicht</u> <u>vorhandenen</u> Garantie, vorbehaltlich aller anderen Rechte oder Rechtsmittel, die Ihnen gesetzlich zustehen und die nicht ausgeschlossen werden können.





Application example / Applikationsbeispiel Digital Signage channels in a Mall

By automatic IP address assignment with DHCP in the same network, the system is practically Plug&Play. The separately available encoder streamers can also be set as Plug&Play in the in-house network via DHCP. Wireless WiFi clients such as tablets or smartphones can retrieve unicasts from the encoder stream in various formats (HTTP, RTSP, HLS, SRT, FLV, ...)

Durch automatische IP-Adressenvergabe mit DHCP im gleichen Netzwerk ist das System praktisch Plug&Play. Die separat erhältlichen Encoder –Streamer können ebenfalls per DHCP als Plug&Play im hauseigenen Netzwerk eingestellt werden. Wireless WiFi Klienten wie z.B. Tablets oder Smartphones können Unicasts von dem Encoder-Stream in diversen Formaten (HTTP, RTSP, HLS, SRT, FLV, ...) abrufen.



PACKAGE CONTENTS / Verpackungs-Inhalt

- 1. SetTopBox M15 Omniscreen Version
- 2. Remote control (with 2x AA batteries* / Fernbedienung incl. 2 Batterien*)
- 3. Ethernet cable (might be optional) / optional evtl. TEthernet RJ45 CAT Kabel
- Power adaptor with Chinese/Australian Power plug > For EU please use an adaptor like from Amazon or a travel unit or use another Power supply to 5V DC with 3.5mm DC Jack (+ 5V = middle)
- 5. HDMI cable (might be optional) / optional evtl. HDMI Kabel
- 6. This User guide / Dieses Manual

* Because of new EU-regulations and for Air-freights and other transports of goods containing Batteries, we cannot guarantee that the pair of batteries are in the package or in the remote control installed already. If these art missing, please equip the Remote Control by using your own fresh new pair 1,5V RG6 AA batteries.
 * Wegen neuen EU-Vorschriften und für Luftfracht und anderen Transporten von Gütern, die Batterien enthalten, können wir nicht garantieren, daß sich das Paar Batterien in der Verpackung oder in der bereits installierten Fernbedienung befindet.
 Sollten diese fehlen, rüsten Sie die RC bitte mit Ihren eigenen frischen, neuen 1,5 Volt AA-Batterie- Paaren aus.

PLACEMENT / Aufstellung

- Do not place anything on top of the SetTopBox.
- Legen Sie nichts auf die SetTopBox.
- Do not place anything within 10cm of the SetTopBox.
- Platzieren Sie nichts innerhalb von 10 cm zum Abstand von der SetTopBox.
- Do not obstruct the ventilation.
- Behindern Sie nicht die Belüftung.

When using the remote control, point it directly at the SetTopBox. Make sure there are no obstacles between the remote control and the SetTopBox.

Wenn Sie die Fernbedienung verwenden, richten Sie sie direkt auf die SetTopBox. Stellen Sie sicher, dass sich keine Hindernisse zwischen der Fernbedienung und der SetTopBox befinden.

GETTING STARTED / Anschließen - Loslegen

The initial installation of your SetTopBox is in this case of DS-box mode not directed by the start-up wizard.

Die Erstinstallation Ihrer SetTopBox wird in diesem Fall des DS-Box-Modus nicht vom Start-Assistenten geleitet.



- 1. IR receiver
- 2. LED indicator
- 3. RF IN* for connection to digital TV antenna
- 4. LOOP OUT* for loop through of the TV antenna signal to other devices
- 5. AV* optional connection for analogue TV sets
- 6. HDMI High Definition interface for connecting to digital TV sets
- 7. S/PDIF for connection to digital audio equipment
- 8. USB* for optional peripheral devices
- 9. LAN Ethernet interface connection for broadband
- 10. DC IN connector for external power pack supplied with the box Pre- setup: S/PDIF and HDMI Audio = pass-through





*): Attention / Achtung: The inbuilt Tuner is not supported by this special DS software OS and the STB cannot decode HEVC. USB is not supported and internal WIFI is not active. Der eingebaute Tuner für DVB-T2 ist nicht aktiviert und der Chipsatz kann kein HEVC decodieren. USB ebenfalls nicht. Internes WIFI ist ausgeschaltet

Power adapter:

Because this devices were originally made for Australia, a Power connector Adapter or another 230VAC to 5V DC 2,5A with 2.5mm DC Jack can be used or we will add one to your packages:



Weil diese Boxen ursprünglich für Australien produziert worden, haben die Netzteile deren Netz-Stecker-Anschluß. Bitte benutzen Sie einen Adapter (z.B. von Amazon, Reiseadapter) oder ein alternatives 5V 2,5A Netzteil mit passendem 3,1mm DC-Jack mit +-Anschluß in der Mitte. (Evtl. liegt sogar ein Adapter dem Paket anbei).

REMOTE CONTROL

Make sure you remove the plastic tab in the battery compartment.



Based on new EU regulations from 1.1.2021 on, we might not deploy any Batteries. *Aufgrund der neuen EU-Vorschriften werden wahrscheinlich keine Batterien beigelegt.*

Your remote is pre-programmed.

REMARK: The full operation of every key/button is not covered any more - so not all buttons will operate but: TV, ON/OFF, Ok, Arrow keys, Back... just try and error...



Layout of the RC / Beschreibung der Tasten auf der Fernbedienung

TV Power ON/OFF		SetTopBox ON/OFF
Posord		
Back	GUIDE -	Guide
Play		Fast-forward
Pause		Info
Volume Up/Down	V* (OK) P*	Channel Up/Down
Exit	V. P.	Back/Return
	1 2 abc 3 def 4 ghi 5 jkl 6mno	
Close/escape	7pqrs 8 tuv 9wxyz	Backspace
Battery indicator light	Battery low	
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IP-Adresse, die von einem aktiven DHCP gefunden wurde: Der Combitel-MAC wurde 192.168.0.80 zugewiesen und zeigt an, dass FTP geöffnet ist. Jetzt können Sie mit dem FTP-Zugriff auf die Box beginnen.



Example with Total Commander: Beispiel mit Total-Commander (Windows10)

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Username and password can be left empty...

Autorisierung-Name und Paßwort können leer gelassen werden.



Got to res – folder: *Das Verzeichnis wechseln zu:* Change to 0:/res/json/ Here you find 2 files:

▼0:/res/json/*.*				* 1
Name	Erw.	Größe	↓ Datum	Attr.
▲ []		<dir></dir>		
📄 channelgroups-1.0.0	json	370	23.01.2020 14:25	-755
channels-1.0.0	json	561	23.01.2020 14:25	-755
📄 settings-1.0.0 😼	json	885	17.10.2019 04:09	-755

You can download and edit them after opening with a linux conform editor like notepad++:

	D:\Dok	umente\	temp\channelgroups-1.0.0.json - Notepad++
File	Edit	Search	View Encoding Language Settings Tools Macro Run Plugins Window ?
٦	28	Ē 🔒	(° 🖨 & ° 10 Ə C # 🛬 < < 🖫 🖼 📰 1 🏋 🖉 🖄 🖉 💿 🔍 🔍 🗉 🕨 🔤
H	leadend	UpdateLo	ug.txt 🛛 📙 HeadendUpdate.ini 🖾 📄 Info.txt 🗵 🔚 Erst datfileconverter dateinametxt 🗵 🔚 channelgroups-1.0.0.json 🔀
	L 🗐	[
	2 🛱		
:	3		"name": "EMPTY",
	1		"slug": "empty",
1 3	5		"channels": [],
	5		"group": "empty"
·	7 –	- } <i>i</i>	
	3 🛱	- (
9	Э		"name": "Main Channels",
10)		"slug": "allchannels",
11	L		"channels": [0,1],
12	2		"group": "tv"
1:	3 –		
1.	4 🛱	- {	
13	5		"name": "News",
10	5		"slug": "allchannels",
1'	7		"channels": [2,3],
18	3		"group": "tv"
19	9 –	- } <i>i</i>	
20)]		
2.	L		

And channels-1.0.0.json:



```
₽C
 2
               "name": "BBC-FullHD",
 4
               "slug": "Nachrichten",
               "streamurl": "udp://225.1.1.1:10001",
               "language": ["de"],
6
7
               "audio": "stereo",
8
               "text": false,
9
               "subtitle": false,
               "group": "tv",
11
               "loop": false
12
           },
13
14
               "name": "Vom-Encoder",
               "slug": "encoded",
15
               "streamurl": "udp://238.0.0.123:12345",
16
17
               "language": ["de"],
18
               "audio": "stereo",
               "text": false,
19
               "subtitle": false,
21
               "group": "tv",
               "loop": false
23
           },
24
      1
25
```

You can copy the parts between { and } and paste into but make sure you add this after the',' and before the]

```
{
    "name": "Vom-Encoder",
        "slug": "encoded",
        "streamurl": "udp://238.0.0.123:12345",
        "language": ["de"],
        "audio": "stereo",
        "text": false,
        "subtitle": false,
        "group": "tv",
        "loop": false
},
```

You can change them accordingly and add this to the channel-file as well can modify the Channelgroups and add some parts... if you like...

Sie können sie entsprechend ändern und der Channel-Datei hinzufügen. Sie können auch die Channel-Gruppen ändern und einige Teile hinzufügen... wenn Sie möchten...

Than safe it re-FTP-upload to the box, use the remote-control to reload by pressing the BACK-button:

Dann sicher wieder per FTP in die Box laden, mit der Fernbedienung durch Drücken der BACK-Taste neu laden:



					Constant Constant
Back			- 3	•	GUIDE -
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Rewind					

Press OK button and you get your listing.

Example with our Encoder Multicast presetting's: Beispiel im Zusammenspiel mit unseren Encoder-Streamern:

In our HDMI/SDI encoder devices, you need to enable the Multicast UDP-

Address in the Main and/or the Secondary chapters in its web-IF:

In unseren HDMI/SDI-Encoder-Geräten müssen Sie die Multicast-UDP-

Adresse im Haupt- und/oder im Nebenkapitel in seinem Web-IF:

Main stream		
Encoding type:	H.264 🗸	
FPS:	50	[5-60]
GOP:	25	[5-300]
Bitrate(kbit):	6400	[32-32000]
Encoded size:	same as the input	
H.264 Level:	baseline profile 🗸	
Bitrate control:	vbr 📡	
TS URL:	/0.ts	Enable 🗸
HLS URL:	/0.m3u8	Enable 🗸
FLV URL:	/0.flv	Enable 🔽
RTSP URL:	/0	Enable 🗸
RTMP URL:	/0	Disable 🗸
RTMP(S)/RTSP PUSH URL:	rtmp://192.168.1.169/live/0	Disable 🗸
Multicast IP:	238.0.0.1	Enable 🗸
Multicast port:	1234	[1-65535]
SRT URL Port:	9000	Disable _ [1-65535]
SRT PUSH URL:	srt://192.168.1.169:9000	Disable 🗸
SRT Encryption Password:	0123456789	Disable 🗸
	Set up	

Same in the Substream page (can have a different downscaled resolution but make sure you select h.264 encoding):



Substream1

Encoding type:	H.264 🗸		
FPS:	25	[5-60]	
GOP:	25	[5-300]	
Bitrate(kbit):	3200	[32-32000]	
Encoded size:	1280x720 🗸		
H.264 Level:	high profile		
Bitrate control:	vbr 🗸		
TS URL:	/1.ts	Enable 🗸	
HLS URL:	/1.m3u8	Enable 🗸	
FLV URL:	/1.flv	Enable 🗸	
RTSP URL:	/1	Enable 🗸	
RTMP URL:	/1	Disable 🗸	
RTMP(S)/RTSP PUSH URL:	rtmp://192.168.1.169/live/1	Disable 🗸	
Multicast IP:	238.0.0.1	Enable 🗸	
Multicast port:	1235	[1-65535]	
SRT URL Port:	9001	Disable 🗸	[1-65535]
SRT PUSH URL:	srt://192.168.1.169:9001	Disable 🗸	
SRT Encryption Password:	0123456789	Disable 🗸	
	Set up		

Check it in the STATUS page:



Main stream

Encode Type:H.264 Encoding Type:1920x1080@50 Bitrate(kbit):6400 TS URL:http://192.168.1.168/0.ts http://192.168.1.168:8086/0. HLS URL:http://192.168.1.168/0.m3u8 http://192.168.1.168:8086/ FLV URL:http://192.168.1.168/0.flv http://192.168.1.168:8086/ RTSP URL:rtsp://192.168.1.168/0 rtsp://192.168.1.168:8554/0 RTMP URL: Disable RTMP URL: Disable Multicast URL:udp://@238.0.0.1:1234 SRT VEL:Disable SRT PUSH URL:Disable Preview(HTML5) Preview(FLASH)

Substream1

Encode	Туре: Н. 264			
Encodia	ng Type:1280x720@25			
Bitrat	e(kbit):3200			
TS URL	http://192.168.1.16	8/1.ts h	ttp://192.	168.1.168:8086/1.
HLS URI	L:http://192.168.1.1	68/1.m3u8	http://1	192.168.1.168:8086
FLV UR	L:http://192.168.1.1	68/1.flv	http://19	92.168.1.168:8086/
RTSP U	RL:rtsp://192.168.1.	168/1 rt	sp://192.1	168.1.168:8554/1
RTMP UI	RL: Disable			
RTMP (S)) PUSH URL: Disable			
Multic	ast URL: udp://0238.	0.0.1:1235		
		0		
atus	Network	Main st	ream	Substreaml



```
The corresponding Channel*.JSON files are looking like:
Groups: channelgroups-1.0.0.json (can be kept usually as it is)
ſ
    {
      "name": "EMPTY",
         "slug": "empty",
        "channels": [],
        "group": "empty"
    },
    {
      "name": "Main Channels",
         "slug": "allchannels",
         "channels": [0,1,2,3,4,5],
         "group": "tv"
    },
channels-1.0.0.json:
    {
      "name": "Multicast-Encoder-Main",
         "slug": "streams",
         "streamurl": "udp://238.0.0.1:1234",
         "language": ["de"],
         "audio": "stereo",
         "text": false,
        "subtitle": false,
        "group": "tv",
        "loop": false
    },
    {
      "name": "Multicast-Encoder-Second",
         "slug": "encoded",
        "streamurl": "udp://238.0.0.1:1235",
         "language": ["de"],
         "audio": "stereo",
         "text": false,
        "subtitle": false,
        "group": "tv",
         "loop": false
    },
1
```

Remember: These are linux-based text-files – not Microsoft Windows.

The Startscreen will come up in the box with the first channel. Pressing OK



button on the Remote Control shows the channel list:



Groups are not configured but can be used. Remark: The settings are corresponding and the number of channels belonging to a group is important and starts with Channel 0:

"channels": [0,1,2,3,4,5,...],

The SetTopBox do only support h.264 and MPEG2 Video codecs, Audios can be AAC (+/++), MP3 (only low sampling rates) MP2, AC3 stereo...

BLANKOM H.265evc	HD Encoder System Platform 5.02	
	—— Audio enc	coding settings -
Audio encoder		
Audi Sam	Input: HOMI 🗸 lerate: 48000 🗸 🔓	Ŷ
	itrate: 32000	[12000~32000]



OmniscreenTV SetTopBox – patch it to an IPTV-Box by Linux-Script:

Falls die M15 STB's mit dem Basis-Firmware-Image ausgestattet sind erscheint dieses Menü nach dem Booten:



 \rightarrow Settings

Hier die folgenden Menüs beachten, in denen man die Voreinstellungen durchführen kann: Here note the following menus where you can perform the presets:

System Information	Product Name	Omniscreen C	MM15-T2			
Jocen anormation	Retailer	FLIP T	V			
Audio & Video	Affiliate	FLIP T	V			
Network	Model	M15T2 (1.0)				
Time & Language	Serial-No.	M15T200190	0852615			
and a surgade	Firmware	1.10 (2030.2006.1947.0)				
Reset	System Firmware	1030.7001.	1467.0			
	System Himware	1030.7001.	1467.0			

See also Audio / Network / Time & Language ...



omniscreen		Addio & Video	Settings					
System Information	Audio HDMI	Passthro	ough					
	Audio S/PDIF	Passthro	bugh					
Audio & Video	Dolby Support	Yes	Yes 1080p-50Hz					
Network	Videoresolution	1080p-5						
Time & Language	Aspect-Ratio	Autom	Automatic					
Reset	Screensaver	Disab	le	•				
	Press the (RED) Key to reset Audio and Video Settings to default.							

Or set to STEREO=PCM. In case of passthrough, the TV must do the Volume... but this will be reset in IPTV-patch

omniscreen		Network	Settings			
Sustan Information	Hostname	Combit	el			
system information	Туре	LAN				
Audio & Video	Mode	DHCP				
Network	MAC-Address	68:72:dc:00:3f:99				
Time & Language	IP-Address	192.168.1.159				
-	Netmask	255.255.255.0				
Reset	Router	192.168.1.1				
	DNS-Server 1	192.168.179.1				
	DNS-Server 2					
	to reset to default press [RED] button press [BLUE] button for refresh display					

Hier sieht man die vom DHCP-Server bereitgestellte IP Adresse. Shows actual DHCP given IP Address

omniscreen		Time & Language	Settings
System Information	Date & Time	23.11.2020	09:59:50
Audio & Video	Timezone Offset	autom	atic >
Network	Language	English	(EN) ►
Time & Language			
Reset			



ACHTUNG:

Bitte nicht auf Factory zurück setzen!!! Do not set back to factory!

Sonst muss man das Online ,Be-tanken' komplett erneuern. Otherwise you need to ONLINE flash it again.

omniscreen		Reset device	Settings
System Information	Factory reset		go!
Audio & Video			
Network			
Time & Language			
Reset			

Nun, nachdem man die IP Adresse kennt, (hier 192.168.1.159) benötigt man einen Linux-Rechner/Server oder z.B. einen Raspberry im gleichen Netz.

Now, after knowing the IP address (here 192.168.1.159) you need a Linux computer/server or e.g. a Raspberry in the same network.

If you need to switch back to this menu in an already IPTV-patched box, you need to change the hybridset.txt value 'key.portal' back to its former value

```
[key]
[key.portal=http://localhost/nanoapps/branded/brandeddashboard/index.html
key.portal=http://localhost/developer/index.html
key.info=http://
# changes the startup of the Portal from the setup-portal to the simple IPTV-portal
...
and reboot the box by Remote Control or enter into the box by SSH, than VI-Edit the hybridset.txt (which is a
symlink in the root you are entering the box by SSH/Telnet:
Of course: user admin, password is O9kAdBQcTH7q3kNh (with an OOOHHH in front, not a Zero), accept the
SSH-Key please
```

You will end up in /root folder:



🚰 192.168.1.81 - KiTTY

🚰 login as:	adr	nin						
admin@192	.168	8.1.81's	password:					
execute ~/.pr	rofi	ile						
execute ~/.ba	ashi	rc						
# ls -la								
drwxr-xr-x	11	root	root	1744	Jul	27	2015	
drwxr-xr-x	20	client	1001	1472	Jul	27	2015	
-rwxr-xr-x	1	root	root	199	Sep	17	2014	.bash profile
-rwxr-xr-x	1	root	root	101	Sep	17	2014	.bashrc
-rwxr-xr-x		root	root	170	Sep	17	2014	.profile
-rwxr-xr-x		root	root	112	Apr	21	2015	311336
-rwxr-xr-x	1	root	root	112	Apr	21	2015	311713
-rwxr-xr-x	1	root	root	112	Apr	21	2015	311715
drwxr-xr-x	4	root	root	320	Jul	27	2015	abox42
drwxr-xr-x	3	root	root	240	Jul	27	2015	branded-apps
-rwxr-xr-x		root	root	161	Apr	21	2015	fakentp.sh
drwxr-xr-x	3	root	root	224	Jul	27	2015	fonts
lrwxrwxrwx	1	root	root	40	Jul	27	2015	hybridset.txt -> /opt/d
ata/settings,	/tv2	2next/hyb	ridset.txt					
drwxr-xr-x	2	root	root	232	Jul	27	2015	iframe
-rwxr-xr-x		root	root	1412	Apr	21	2015	inputkey.txt
-rwxr-xr-x		root	root	5323780	Apr	21	2015	mipsel-linux-staticrcsp
receiver								
drwxr-xr-x	2	root	root	376	Jul	27	2015	portalstack
-rwxr-xr-x	1	root	root	660	Jun	24	2015	rc.user
drwxr-xr-x	2	root	root	376	Jul	27	2015	tndlna
drwxr-xr-x	2	root	root	232	Jul	27	2015	tnlauncher
-rwxr-xr-x		root	root	150734	Jul	27	2015	tnnetconect.out
drwxr-xr-x	2	root	root	224	Jul	27	2015	tnodvb
drwxr-xr-x	2	root	root	232	Jul	27	2015	tnupnp
-rwxr-xr-x	1	root	root	1631	Apr	21	2015	udhcpc.sh
-rwxr-xr-x		root	root	2764854	Apr	21	2015	wl_logo.bmp

Do vi hybridset.txt : enter into insert mode by 'l'

```
[network]^M
network.prefdns=8.8.8.8^M
network.ntp=time.windows.com^M
#network.ntp=192.53.103.108^M
#network.ntp=time.abox42.com^M
#network.ntp=192.168.1.255^M
#example for local ntp from eq. raspi4 with ntp browsing^M
# modifiziert for test RR^M
^М
[key]^M
#key.portal=http://localhost/nanoapps/branded/brandeddashboard/index.html^M
key.portal=http://localhost/developer/index.html^M
key.info=http://^M
# startet das portal - hier auf simple PlugandplayIPTV umgebogen^M
^M
[apps]^M
# the app which will be activated when the box startup.^M
```

...

Simply erase the # in front of the key.portal= (do not be irritated by the ^M, that's from the linux editor used before to do a Carriage Return ;-)

key.portal=http://localhost/nanoapps/branded/brandeddashboard/index.html^M
#key.portal=http://localhost/developer/index.html

Than leave the vi 'Insert-Mode' by ESC-key, enter ':' than w (like write), -> Enter, ':' again gith g



Now you must kill portalstack and reload it than: so you enter 'ps aux':

root									0:00 [CmdProcessor]
root	836							12:58	0:00 [StatusMonitor]
root	3654			1800			Ss	13:55	0:05 /usr/local/sbin/dropbear -E -r /tmp/dropbear rsa host key
root	4268			2024	1096	pts/1	Ss	13:56	0:00 -sh
root	13580	2.4	18.9	537640	51188	?	S1	13:37	0:46 /root/portalstack/portalstack.out
root	13581	0.0	0.1	1528	376		S	13:37	0:00 logger T
root	14246								0:00 [flush-ubifs ¹] 0]
root	19688			1644	556	pts/l			0:00 ps aux
root	21001			1800			Ss		0:06 /usr/local/sbin/dropbear -E -r /tmp/dropbear_rsa_host_key
root	21609			2024	1104	pts/0	Ss+	13:16	0:00 -sh
#									

The PID of portalstack.out is 13580 in this case.

Just enter 'kill 13580'

The TV screen becomes black now and after a few seconds portalstack will come back (check ps aux in the box):

root	21609	0.0	0.4	2024	1104	pts/0	Ss+	13:16	0:00 -sh
root	22303	23.7	27.2	564564	73604	?	S1	14:11	0:14 /root/portalstack/portalstack.out
root	22304	0.0	0.1	1528	376	?	S	14:11	0:00 logger
root	22379	0.0	0.0					14:11	0:00 [flush-ubifs_2_0]
root	22380	0.0	0.0					14:11	0:00 [flush-ubifs_1_0]
root	23569	0.0	0.2	1644	556	pts/l	R+	14:12	0:00 ps aux
±									

The PID number has now been changed of course ;-) to 22303 now but loads the setup-portal:





Change your settings like Language or whatever... (see above).

To enable back the user-simple IPTV-Menu just do this again by vi and changing the '#' of both values in hybridset.txt and kill 'portalstack' again (will reload itself automatically each time. And the IPTV start-screen will come back after a few seconds...:





Preparing a workstation for further software installation and maintenance for the boxes

Note: Apple MacBook was used to prepare these instructions.

2.1. Accessing Terminal:

*the following commands should be performed on the command line, through 'terminal'. To access **terminal**: Applications -> Utilities -> Terminal

2.2. Checking the requirements:

You need to <u>check</u> whether you have the following requirements installed; if they are not present, you need to install them. To check whether they're installed, type in the command and if a version or a set of other commands is returned, proceed to the next manual. Otherwise, to the next step.

- bash
- curl
- expect
- ssh

2.3. If one of the requirements is not installed.

Make sure you download these requirements on the command line.

• Bash, curl and ssh should already be present within the (MAC) machine

• To download expect, run this in the command line:

\$ brew install expect

2.4. Once requirements are installed:

• If your outputs mirror those of the pictured command line display, you can proceed to the next manual.



```
[Victoria-MBP:~ sylvie$ bash
[bash-3.2$ exit
exit
[Victoria-MBP:~ sylvie$ curl
curl: try 'curl --help' or 'curl --manual' for more information
[Victoria-MBP:~ sylvie$ expect
expect1.1> exit
[Victoria-MBP:~ sylvie$ ssh
usage: ssh [-46AaCfGgKkMNnqsTtVvXxYy] [-B bind_interface]
        [-b bind_address] [-c cipher_spec] [-D [bind_address:]port]
        [-E log_file] [-e escape_char] [-F configfile] [-I pkcs11]
        [-i identity_file] [-J [user@]host[:port]] [-L address]
        [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
        [-q query_option] [-R address] [-S ctl_path] [-W host:port]
        [-w local_tun[:remote_tun]] destination [command]
Victoria-MBP:~ sylvie$
```

Factory Reset. We do not recommend to do this after the 30th June 2022 because the Update server will be switched off and the box will get no firmware any more.

If required, you are able to reset the Abox42 to its factory settings. Power on STB by pressing the power button. Immediately press the power button again and hold for at least 20 sec. Sometimes manual factory reset won't work on first try. You may have to give it a few attempts.

SSH connectivity and commands.

User: admin Password: O9kAdBQcTH7q3kNh 'O' not '0' !!! so an OOhh, not a zero

Usefull ssh commands with php commandline but you need to know their variables...:

- Factory reset:
 - php -r 'tncommon_startfactoryreset(0, "AreYouSure");'
- Disable screensaver (ON by default): php –r 'tncommon_enablescreensaver(0);'
- Print available php tncommon api functions: php –r 'print_r(get_extension_funcs("tncommon"));'

.....



you can create at least a listing in the box

For the FTP access to the Box: abox ftp - pw admin O9kAdBQcTH7q3kNh

After it has been IPTV-patched, the FTP user/password can be left empty

The boxes NAND FS is used with UBI: <u>http://www.linux-mtd.infradead.org/doc/ubi.html#L_autoresize</u>

IPTV open filesystem backup-ed to a USB-Pendrive which will be mounted when plugin as /mnt/hdd_01 Supporting FAT and E2FS ext2/3/ 4(maybe). For such action ext2 is OK.

Introduction

The Standalone IPTV package provides the ability to receive IPTV channels streamed over UDP/IP multicast directly through Omniscreen M15 Series STB. The steps below show you how to configure a STB to simply stream the input channels.

Please note, you must complete the Initial Setup and firmware download from the pre-programmed server prior to performing this procedure when using STB for the first time. See above, boot screen must be:





IRENIS can deliver them with this naked first start Firmware and you patch it by yourself to the needs like NTP server address etc. ... by modifying its hybridset.txt which will be transmitted with the IPTV script as well:



Parts of it: [network] #network.prefdns=208.67.222.222 # this is openDNS US network.prefdns=9.9.9.9 #network.ntp=time.abox42.com #network.ntp=192.53.103.108 network.ntp=time.windows.com # hier sollten lokale Daten rein: DNS kann z.B. weltweit der Google sein 8.8.8.8 oder neutral 9.9.9.9, NTP Server sollte ein lokaler genommen werden. # Kommentarzeilen die vom linux ignoriert werden fangen mit der Raute an [kev]

#key.portal=http://localhost/nanoapps/branded/brandeddashboard/index.html
key.portal=http://localhost/developer/index.html
key.info=http://
was das macht weiss ich nicht

[apps] # the app which will be activated when the box startup. FirstRunApp=portalstack # the app which will be run # for example: if we define RunPortal=portalstack, it means there is a portalstack directory under rootfs/root, a portalstack.sh file under the portalstack directory, support to start/stop/restart the subsystem. # And the app name of portalstack is /dbus/portalstack, the dbus name of portalstack is dbus.Portalstack, the path name of portalstack is /dbus/Portalstack, the interface name of portalstack is dbus.App RunPortal=portalstack

im Folgenden sollte z.B. die Timezone gesetzt werden - was das im einzelenen alles macht weiss ich nicht [nano] nano enable=1 serviceprovider=abox42 hddsys enabled=0 #nano hdd=/mnt/HDDSYS hddsys encrypted=0 hddsys install app=0 #timezone=Australia/Canberra timezone=Europe/Berlin language=en #language=de currency=eur developermode=0 bundle list=m20-webkit bundle=default-m20-webkit



```
welcomevideo.url=/nano-
lamp/var/www/htdocs/nanoapps/abox42/apps/userhomedashboard/img/welcome.mp4
app auto update=0
app hourly updates=0
# url which is used to check if box is online
#online check url=http://check.abox42.com
online check url=https://web.de
# timeout for check url request
online check timeout=5
# ttl for entry in apc cache - check interval is calculated from this
value (50%)
online check apc ttl=30
# configure timeout for ajax call for installing/updating nano apps
(default 90 seconds)
app_install_or_update_ajax_timeout=90
# configure url of red button loop video
loopvideo.stream=http://localhost/api/device/img/loop.mov
# enable (1) or disable (0) auto install
app auto install on boot=1
# enable (1) or disable (0) firmware version check (and update) on boot
fw version check=0
# enable (1) or disable (0) SSI version check (and update) on boot
ssi version check=0
# change language in expert - enabled(1) or disabled(0)
language chooser is enabled=1
# get statistical informations via diagstat_module - 0=disabled 1=enabled
statistics enabled=0
# enable facebook registration - 0=disabled 1=enabled
#facebook enabled=1
#facebook blue button enabled=1
facebook enabled=0
facebook blue button enabled=0
```



Preparing for installation.

1.1. Download the package into the same directory (folder):

abox 42 iptv setup.tar.gz

Name	Größe	Gepackte Größe	Geändert am	Zugriffsrechte	Besitzer	Gruppe
abox_42_iptv_setup.sh	958	1 024	2019-11-01 01:00	-rwxr-xr-x	stilia	staff
📔 channelgroups-1.0.0.json	248	512	2019-11-01 00:59	-rw-rr	stilia	staff
📓 channels-1.0.0.json	540	1 024	2019-11-01 00:59	-rw-rr	stilia	staff
📔 hybridset.txt	10 625	10 752	2019-11-01 01:54	-rw-rr	stilia	staff
🚾 iptv_package.tar.gz	1 690 078	1 690 112	2019-11-01 00:39	-rw-rr	stilia	staff

iptv package.tar.gz contains: The new Scripts and start screen etc...

...

Name	Größe
res	2 542 864
1	212
index-1.0.0.php	212
_index.html	212
res	212
index-1.0.0.php	15 554
index.html	163

The **hybridset.txt** should be manipulated to own needs:

Example: The first lines should be changed to own values:

```
[network]
network.prefdns=208.67.222.222
network.ntp=time.abox42.com
```

See also complete default hybridset.txt file content at the end of this document. Some values should be disabled and not used - we do not take any responsibilities for the modifications which cause errors or are wrong. Try and Error is the key.

1.2. Change directory into the same directory as the package. Example folder:

folder with files

[Victoria-MBP:~ sylvie\$ cd folder_with_files Victoria-MBP:folder_with_files sylvie\$



1.3. Run command to un-tar the file:





1.4. Run the command to change permissions:

\$ chmod 755 abox_42_iptv_setup.sh

Multicast IPTV Channel Configuration

The file channels-1.0.0.json can be modified to add/remove/edit multicast TV channels. Use a common Linux text editor to edit the file.

```
{
    "name": "World Movies",
    "slug": "World Movies",
    "streamurl": "udp://239.10.6.34:12345",
    "language": ["en"],
    "audio": "stereo",
    "text": false,
    "subtitle": false,
    "group": "tv",
    "loop": false
},
{
    "name": "7TW0",
    "slug": "7TWO",
    "streamurl": "udp://239.10.6.14:12345",
    "language": ["en"],
    "audio": "stereo",
    "text": false,
    "subtitle": false,
    "group": "tv",
    "loop": false
},
```



- To add a channel, copy the whole bracketed section (starting with '{' bracket and ending '}' bracket with everything in between. Following with a comma.
- Change the channel "name" and "slug" lines to the name of the channel you're trying to create.
- Add the UDP stream address to the "streamurl" line between the quotation marks and followed with a comma.
- The rest of the details should only be altered per user preference. Subtitles can be added as an example.

The file channelgroups-1.0.0.json is used to add/remove/edit channel groups:



- Change the "name" to the category name of your choosing.
- "channels" should be filled with numbers separated by a comma of the desired channels for that group. The numbers correlate to the order they are input into the "channels-1.0.0.json" file. Count starts at 0.

Configuring specific STB with the new channel list

Finally, run this script to configure and setup the ABOX with the IPTV package:

- \$./abox_42_iptv_setup.sh <IP of the STB>
- Example IP: 172.16.3.163
- Example script: \$./abox_42_iptv_setup.sh 172.16.3.163
- You should see this sequence follow those commands:

<pre>[Victoria-MBP:~ sylvie\$./abox_42_iptv_setup.sh 172.16.3.163</pre>
Uploading files
Updating AB0X42 172.16.3.163
Refreshing 172.16.3.163
done

Example with an Ubuntu server:

😴 chucko@ireni-filebox: ~/Omniscreen 💷 a *	6	late	est	- D-H
Datei Bearbeiten Reiter Hilfe	Datei Bearbeiten Ansicht Eavoriter	n Gehe zu Werkzeuge Hilfe		
drwxr-xr-x 2 chucko chucko 4096 Mär 21 2019 Vorlagen -rw 1 chucko chucko 118 Nov 23 11:21 .Xauthority	💠 🗸 🤤 🄄 🕅 [home/cl	nucko/Omniscreen/latest		6
-rw-rr 1 chucko chucko 15008 Nov 23 11:29 .xorgxrdp.10.log -rw-rr 1 chucko chucko 18514 Sep 2 16:14 .xorgxrdp.10.log.ol.	Orte 🗸	Name	✓ Beschreibung	Größe Geändert
d -rw-rr 1 chucko chucko 15028 Sep 25 2019 .xorgxrdp.11.log	Benutzerordner	A aus Plint-setup-middlewareserver	Orther	23.11.2020 11:25
-rw 1 chucko chucko 52871 Nov 23 11:21 .xsession-errors- chucko@ireni-filebox:-\$ cd 0* hash: cd: 71 wield Argumente	Papierkorb	abox_42_iptv_setup.sh	Shell-Skript	958 Bytes 01.11.2019 01:00
chucko@ireni-filebox:-5 cd Onnis*	Anwendungen	abox_42_iptv_setup.tar.gz	Tar-Archiv (gzip-komprimiert)	1,6 MiB 08.11.2019 09:50
chucko@ireni-filebox:~/OnniscreenS ping 192.168.1.159	🔏 freigabe	channelgroups-1.0.0.json	JSON-Dokument	370 Bytes 23.01.2020 15:23
64 bytes from 192.168.1.159: icmp seq=1 ttl=64 time=0.497 ms	thinclient_drives	channels-1.0.0.json	JSON-Dokument	561 Bytes 15.11.2019 12:59
64 bytes from 192.168.1.159: icmp seq=2 ttl=64 time=0.326 ms	I Dokumente	whybridset.txt	Einfaches Textdokument	10,4 KiB 30.10.2020 10:55
64 bytes from 192.168.1.159: icmp seq=4 ttl=64 time=0.256 ms	Musik	whybridset.txt.org	Einfaches Textdokument	10,4 KiB 01.11.2019 01:54
64 bytes from 192.168.1.159: icmp_seq=5 ttl=64 time=0.264 ms	Bilder	initial_setup_abox42v5_MAC.pdf	PDF-Dokument	387,6 KiB 01.11.2019 13:00
64 bytes from 192.168.1.159: icmp seq=0 tit=64 time=0.259 ms	I Videos	IPTV_conf_abox42v6.pdf	PDF-Dokument	199,3 KiB 01.11.2019 13:00
C 192.168.1.159 ping statistics 7 packets transmitted, 7 received, 0% packet loss, time 6121ms rtt min/awg/max/mdew = 0.256/0.362/0.497/0.085 ms	Downloads	iptv_package.tar.gz	Tar-Archiv (gzip-komprimiert)	1,6 MIB 01.11.2019 00:39

Ping the box, if in reach we can use the script to make it an IPTV-Basic box:

Edit hybridset.txt:



Maybe change DNS address....

Whatever....

Now we can use the script:



```
chucko@ireni-filebox: ~/Omniscreen/latest
 Datei Bearbeiten Reiter Hilfe
64 bytes from 192.168.1.159: icmp_seq=5 ttl=64 time=0.264 ms
64 bytes from 192.168.1.159: icmp_seq=6 ttl=64 time=0.258 ms
64 bytes from 192.168.1.159: icmp seq=7 ttl=64 time=0.259 ms
 --- 192.168.1.159 ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6121ms
rtt min/avg/max/mdev = 0.256/0.302/0.497/0.085 ms
chucko@ireni-filebox:~/Omniscreen$ nano hybridset.txt
chucko@ireni-filebox:~/Omniscreen$ ls -la
insgesamt 12
drwxrwxr-x 3 chucko chucko 4096 Nov 23 11:34 .
drwxr-xr-x 21 chucko chucko 4096 Nov 23 11:25 .
drwxrwxr-x 4 chucko chucko 4096 Nov 23 11:30 latest
chucko@ireni-filebox:~/Omniscreen$ cd latest
chucko@ireni-filebox:~/Omniscreen/latest$ nano hybridset.txt
chucko@ireni-filebox:~/Omniscreen/latest$ ls -la
insgesamt 3952
drwxrwxr-x 4 chucko chucko
                                                           4096 Nov 23 11:36 .
drwxrwxr-x 3 chucko chucko
                                                          4096 Nov 23 11:34 ...
drwxrwxr-x 3 chucko chucko 4096 Nov 23 11:34 ..

-rwxrr-xr-x 1 chucko chucko 958 Nov 1 2019 abox_42_iptv_setup.sh

-rwxrw-r-- 1 chucko chucko 1696072 Nov 8 2019 abox_42_iptv_setup.tar.gz

drwxrwxr-x 2 chucko chucko 4096 Nov 23 11:25 aus

-rw-r--r-- 1 chucko chucko 370 Jan 23 2020 channelgroups-1.0.0.json

-rw-r--r-- 1 chucko chucko 561 Nov 15 2019 channels-1.0.0.json
-rw-r--r-- 1 chucko Chucko 561 Nov 15 2019 channels-1.0.0.jSon

-rw-r--r-- 1 chucko chucko 10649 Nov 23 11:36 hybridset.txt

-rw-r--r-- 1 chucko chucko 10625 Nov 1 2019 hybridset.txt.org

-rwxrw-r-- 1 chucko chucko 396939 Nov 1 2019 initial_setup_abox42v5_MAC.pdf

-rwxrw-r-- 1 chucko chucko 1690078 Nov 1 2019 IPTV_conf_abox42v6.pdf

-rw-r--r-- 1 chucko chucko 1690078 Nov 2 12019 iptv_package.tar.gz

drwxrwxr-x 2 chucko chucko 4096 Nov 23 11:30 Pilot-setup-middlewareserver

chucko@ireni-filebox:~/0mniscreen/latest$ ./abox_42_iptv_setup.sh 192.168.1.159
```

->
chucko@ireni-filebox:~/Omniscreen/latest\$./abox_42_iptv_setup.sh 192.168.1.159
Uploading files...
Updating AB0X42 192.168.1.159...
Refreshing 192.168.1.159...
done
chucko@ireni-filebox:~/Omniscreen/latest\$

Box comes back with: Pressing the reload button on the remote control – reloads the channels –list and displays the intro.





Now it can be accessed by FTP:

🛃 Verbinden

 Connect to: (23.11.2020 11: nostname=192.168.1.159 usemame=	56:19)				
🛃 ftp - Abox	6				×
Benutzemame:					
I					
		0	К	Abbrechen	
			1		
	Abl	brechen			

Just simply fill in nothing – just OK...

▲ []		<dir></dir>		
[res]		<dir></dir>	23.11.2020 10:52 ·	-755
🕌 iptv_package.tar	gz	1.690.078	23.11.2020 10:52 ·	-644
index-1.0.0	php	15.554	23.06.2016 00:00	-755
index	html	163	29.09.2015 00:00 ·	-755
2				

If you know what you are doing, you can change them to your needs...

😰 0 → ftp://192.168.1.159				λ
▼0:/res/json/*.*				* 🔻
Name	Erw.	Größe	↓ Datum	Attr.
▲ []		<dir></dir>		
🗃 channelgroups-1.0.0	json	370	23.11.2020 10:52	-755
📓 channels-1.0.0	json	561	23.11.2020 10:52	-755
📓 settings-1.0.0	json	885	17.10.2019 00:00) -755

Note all the *.json are Linux text files !!!



Note: Some Linux PC's (and also latest Rasbian PI) need a modified patch script to automatically store the SSH-key and accept it also automatically. -> See page 58 and 63

PAIRING THE REMOTE CONTROL WITH YOUR TELEVISION

Activating RF mode and pairing your remote and dongle:

The default setting of your remote control is in infrared mode (IR).

To activate the radio frequency (RF) mode, your remote control needs to be paired with the **dongle*.** NOTE: For pairing, the remote must be within 1m of the SetTopBox.

- 1. Make sure your USB-Dongle* is NOT plugged into the SetTopBox.
- 2. Turn on the SetTopBox & TV Set.
- 3. Hold the MENU+OK buttons together for 3 seconds.
- 4. After 3 seconds the SetTopBox LED blinks 5 times.
- 5. Release the buttons and RF pairing will begin.
- 6. Plug in the RF dongle into the USB port on the rear of the SetTopBox.
- Once the pairing is complete, you will receive a message that your remote is connected to the SetTopBox. The SetTopBox LED on the remote control will provide 3 confirmation flashes. The LEDs will switch off to indicate the remote is RF mode.
- If the pairing was not successful, TV- LED will provide an error blink. All LEDs are off.
 RC goes back to previous state, either IR mode or paired to previous SetTopBox.
- 9. When the remote control is in pairing mode, holding the "Last/Back" key for 3 seconds will stop pairing. The TV LED will provide an error blink.
- 10. In the event of unsuccessful pairing, retry the above steps.

*) In this version the dongle is not part of the package.



Programming the remote control for your TV

- 1. Make sure the TV is turned ON.
- Press and hold the digit '1' and digit '3' keys together for at least 3 seconds. After 3 seconds the TV-Power LED will blink twice and remain on.
- 3. Release the keys.
- 4. Enter the brand code for your television or '9999' to begin auto-search. When the digits are pressed, the TV-Power LED gives a short inverse blink. After the fourth digit, the remote checks if the 4-digit code is valid.
- a. If the TV-Power LED gives confirmation blink and remains on, the search will include all code-sets that are linked to the selected brand.
- b. If the code was not valid, the remote will give an error-blink and return to usemode.
- Press the TV-Power or Mute key continuously; after 2 seconds a Power Toggle or Mute IR-command is transmitted for the next universal code-set in the code-set list. The LED will turn off during transmission of the IR-command.
- 6. Continue pressing the button if the TV does not turn off or mute. The remote will then try the next universal code-set in the list for the selected brand. This process can take a couple of minutes.
- 7. When the TV turns off/mutes, release the TV-Power or Mute key. Releasing the TV-Power/Mute key confirms the current code-set.
- 8. Test your remote by pressing buttons: TV-Power, TV-Input, Volume-keys, and Mute.
- 9. Finalized your set-up by pressing the "SetTopBox ON/OFF" button.

NOTE

Once the remote is in Setup-mode and no keys are pressed for around 30 seconds, the remote gives an error blink and returns to use-mode. If this 30 seconds time-out elapsed while in step 6 or 7, then the new universal code set is programmed to non-volatile memory.

After a 2 second long press, Brand-/Auto search starts.

At any time during setup-mode before step 4, the user can abort set-up by pressing the "settop box ON/OFF" button. When this happens, a confirmation blink is given. The remote will return to use mode and cancel changes.

If the user restarts a brand search (not auto search or 9999), by entering the same brand-ID as is currently programmed, the brand search will continue where it left off before.

After step 6, you may press digit '1' and '3' for more than 3 seconds. The remote control returns to step 3. If '1' and '3' are pressed during digit code entering (step 4) it will be treated as an invalid code.



TV-Marken – Brands und die KeyCodes zur Programmierung der Fernbedienung:

Brand	#	Brand	. #
888	0006	Atec	0230
A.R. Systems	0012	Atlantic	0233
Accent	0019	Atori	0237
ACE	0026	Atoro	4518
Acer	0028	Auchan	0240
Acme	3521	Audiosonic	0264
Acoustic Solutions	0032	Audioton	0266
Action	0033	Audiovox	0268
Acura	0036	Audioworld	0269
ADA	0038	Ausind	0276
ADC	0040	Autovox	0280
Addison	0043	Aventura	0287
ADL	0045	Awa	0296
Admiral	0046	Axxent	0302
Advent	0054	Axxon	0303
Adyson	0058	Avomi	3525
AEG	0059	B&D	3609
Aftron	3470	Baier	0308
Agashi	0063	Baihe	0309
Agazi	3522	Baibehua	4091
AGB	0064	Baibua	4092
Agraphoto	4/66	Baile	0310
Airo	0089	Baird	0310
AllII	0070	Bang & Olufsen	0314
Ains	0072	Bang & Oldisen	0216
Akai	0074	Baorhang	0310
Akashi	0075	Baosneng	0318
Akiba	0078	Barco	0319
Akira	0079	BARON	3959
Akito	0082	Base	0322
Akura	0083	Basic Line	0325
Alaron	0085	Bastide	0327
Alba	0086	Bauer	0329
ALBIRAL	3775	Baur	0331
Alcyon	0093	Baysonic	0333
		Bazin	0335
		Beaumark	0340
		Beijing	0345
		Beko	0346
		Belson	0355
Belstar	0357	Cabletime	0457
BenQ	0359	Cainong	0462
Bensten	3559	Cailing	0465
Beon	0361	Caisni	0405
Berthen	0363	Cameron	4033
Best	0364	Camper	3911
Bestar	0368	Canal Digital	0476
Bestar-Daewoo	0369	Capsonic	0486
Bestavision	0370	Carad	0488
Bestwell	3560	Carena	0489
Bigston	4519	Carrefour	0492
Binatone	0378	Cascade	0496
Black Diamond	0384	Casio	0499
Black Star	0386	Cat	0500
Blacktron	3526	Catha	4094
Blackway	0388	Cathay	0501
Blaupunkt	0390	Caton	4095
Blue Media	3378	CCE	0504
Blue Sky	0395	Celebrity	0509
, Blue Star	0396	celles	0511
Воса	0399	Centrey	0516
Boman	0402	Centrum	0519



Bondstec	0403	Centurion	0520
Boots	0405	Century	0521
Bash	2645	CGE	0523
BOLK	3615	COL	0325
BPL	0413	CGIVI	3449
Brandt	0416	Champion	0525
Brillian	0120	Changcheng	0526
Brillian	0422	Changfei	0527
Brimax	3797	Changfong	0527
Brinkmann	0423	Changleng	0528
B :	0425	Changhai	0529
Brionvega	0424	Changhong	0530
Britannia	0425	Chaparral	0533
Broksonic	0432	Chanadu	0535
Dioksonie	0452	Chenguu	0333
Brother	0433	Chimei	3563
Bruns	0435	Ching Tai	0541
PckyP	0426	Chuangija	4096
DSKyD	0430	enadiigjid	1050
BSR	0437		
BTC	0439		
Ruch	0445		
Busii	0443		
Chun Yun	0545	Dainichi	0694
Chunfeng	0546	Dansai	0699
Chung Hsin	0547	Dansotto	0701
Chungfong	0549	Dansette	0701
chungleng	0346	Dantax	0702
Chunlan	4097	Datong	4991
Chunsun	0549	Detree	4201
CIE	4520	Datron	4201
Cimlino	0552	Datsura	0703
Cimine	0552	Dawa	0707
Cinex	0563	Dawa	0707
City	0569	Daytek	0708
Clarivox	0576	Davton	0709
Clatania	0570	Daytrop	0710
Clatronic	0581	Daytron	0/10
Clayton	0582	Dayu	0711
CMS	0590	De Graaf	0716
CMS Highter	0591	DEC	0717
Calu	0501	DEC	0/1/
Сову	0597	Decca	0718
Commercial Solutions	0615	Deitron	0722
	0606	Belefoli	0/22
Concorde	0626	Damlin	0720
Concorde Condor	0626	Denko	0730
Concorde Condor Conio	0626 0627	Denko Denver	0730 0733
Concorde Condor Conia	0626 0627 0628	Denko Denver Desmet	0730 0733 0738
Concorde Condor Conia Conrac	0626 0627 0628 0632	Denko Denver Desmet	0730 0733 0738 0746
Concorde Condor Conia Conrac Conrowa	0626 0627 0628 0632 0634	Denko Denver Desmet Diamant	0730 0733 0738 0746
Concorde Condor Conia Conrac Conrowa Contec	0626 0627 0628 0632 0634 0635	Denko Denver Desmet Diamant Diamond	0730 0733 0738 0746 0747
Concorde Condor Conia Conrac Conrowa Contec	0626 0627 0628 0632 0634 0635	Denko Denver Desmet Diamant Diamond Dick Smith Electropics	0730 0733 0738 0746 0747 0750
Concorde Condor Conia Conrac Conrowa Contec Continental Edison	0626 0627 0628 0632 0634 0635 0637	Denko Denver Desmet Diamant Diamond Dick Smith Electronics	0730 0733 0746 0747 0750
Concorde Conia Conia Conrac Conrowa Contec Continental Edison Cosmel	0626 0627 0628 0632 0634 0635 0637 0647	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron	0730 0733 0746 0747 0750 0751
Concorde Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley	0626 0627 0628 0632 0634 0635 0635 0637 0647 0655	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome	0730 0733 0738 0746 0747 0750 0751 0751
Concorde Conia Conra Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline	0730 0733 0746 0747 0750 0751 0758 0759
Concorde Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0658	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digiline	0730 0733 0738 0746 0747 0750 0751 0758 0759 2908
Concorde Conia Conrac Conrac Controwa Contec Continental Edison Cosmel Crosley Crosley Crown CS Electronics	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0658 0663	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline DigiMax	0730 0733 0746 0747 0750 0751 0758 0759 3808
Concorde Conia Conrac Conrowa Contrometal Edison Cosmel Crosley Crown CS Electronics CTC	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digilma DigiMax Digital Device	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770
Concorde Condor Conia Conrac Controwa Contec Continental Edison Cosmel Crosley Crosun CS Electronics CTC CTC Clatronic	0626 0627 0628 0632 0634 0635 0637 0655 0655 0658 0663 0664 3527	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digilome Digilome DigilMax Digital Device Digital Life	0730 0733 0738 0746 0747 0750 0751 0758 0759 3808 0770 0722
Concorde Conia Conrac Conrowa Contrec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0658 0663 0664 3527 0449	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digiline Digilax Digital Device Digital Life	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0772
Concorde Conia Conrac Conrac Controwa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic CTC CTech CTX	0626 0627 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0655	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digilome Digilome Digilome Digilane Digital Device Digital Life Digitek	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0772 0772
Concorde Conia Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Cutric	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0658 0663 0664 3527 0449 0665	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digiline DigiMax Digital Device Digital Life Digitex	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0772 0779 0779
Concorde Conia Conrac Conrowa Contriental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX CTX Curtis	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0665	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digilome Digiline Digiline Digiline Digital Device Digital Life Digitek Digitex Digitor	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0770 0772 0779 0779 0781
Concorde Conia Conrac Conrac Contrac Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic CTC Clatronic	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0666 0666	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digilome Digilome Digilome Digital Device Digital Device Digital Life Digitek Digitex Digitor	0730 0733 0746 0747 0750 0751 0759 3808 0779 3808 0770 0772 0772 0779 0780 0781
Concorde Conia Conia Conrowa Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX CTX Curtis Curtis Mathes CWN	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0666 0666 0666	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digiline Digiline Digital Device Digital Life Digitek Digitek Digitex Digitor Digix	0730 0733 0738 0746 0747 0750 0751 0758 0759 3808 0770 0772 0779 0770 0772 0779 0781 3520
Concorde Condor Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Curtis Curtis Curtis Mathes CWN CWN CWN CWR-Tech	0626 0627 0628 0632 0634 0635 0637 0655 0658 0663 0664 3527 0449 0665 0666 0666 0666 0667 0668 0668	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digilome Digilome Digilome Digital Cevice Digital Life Digitek Digitek Digitex Digitor Digitor Digix Digix	0730 0733 0746 0747 0750 0751 0759 3808 0779 3808 07772 0779 0772 0779 0780 0781 3520 3391
Concorde Conia Conia Conrac Conrowa Contec Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX CTX Curtis Mathes CWN CWR-Tech	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0663 0664 0564 0664 0565 0665 0665 0665 0666 0666	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digiline DigiMax Digital Device Digital Life Digitek Digitex Digitor Digix Digix Digix Digix	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0779 0779 0779 0780 0781 3520 3391 0807
Concorde Condor Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic CTC Clatronic CTC CTC Clatronic CTC CTC Clatronic CTC CTC Clatronic CTC CTC Clatronic CTC CTC CTC CTC Clatronic CTC CTC CTC CTC CTC CTC CTC CTC CTC CT	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0666 0667 0666 0667 0668 4778	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digilome Digitalowice Digital Life Digitek Digitek Digitex Digitor Digix Dikom Dixi	0730 0733 0738 0746 0747 0750 0751 0758 0759 3808 0779 3808 0770 0772 0779 0770 0772 0779 0780 0781 3520 3391 0807
Concorde Conia Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic CTC Clatronic CTC Clatronic CTC Clatronic CTX Curtis Mathes CWN CWR-Tech Cybertron Cytronix	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 0663 0664 3527 0449 0665 0666 0666 0667 0668 4778 0668	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digithax Digital Device Digital Device Digital Life Digitek Digitex Digitor Digix Dikom Dixi DL	0730 0733 0746 0747 0750 0751 0759 3808 0779 3808 0770 0772 0779 0779 0780 0779 0780 0781 3391 0807 0810
Concorde Conia Conia Conrac Contriental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Curtis Curtis Mathes CWN CWR-Tech Cybertron Cytronix Daewoo	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0666 0666 0666 0666 0666 066	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digithme Digital Device Digital Device Digital Life Digitek Digitek Digitex Digitor Digix Dikom Dixi DL DMTech	0730 0733 0738 0746 0747 0750 0751 0758 0759 3808 0779 0770 0772 0779 0779 0781 3520 3391 0807 0810 0810
Concorde Condor Conia Conrac Contrac Contrac Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic CTC Clatronic CTC CTC Cybertron Cybertron Cytronix Daewoo	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 0555 0664 0664 0665 0666 0666 0666	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digilome Digihome Digitome Digital Device Digital Life Digital Life Digitek Digitex Digitex Digitor Digix Dikom Dixi DL DMTech Domeos	0730 0733 0746 0747 0750 0751 0759 3808 0779 3808 0770 0772 0772 0779 0780 0779 0780 0781 3520 3391 0807 0810 0817
Concorde Conia Conia Conrac Conrowa Contec Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Mathes CWN CWR-Tech Cybertron Cytronix Daewoo	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 0664 0664 0665 0665 0666 0666 0666	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digiline Digiline Digital Device Digital Life Digitak Digitex Digitex Digitor Digix Dikom Dixi DL DMTech Domeos	0730 0733 0746 0747 0750 0751 0759 3808 0770 0779 0779 0779 0779 0780 0781 3520 3391 3520 3391 0807 0810 0813 0817
Concorde Condor Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis CWN CWR-Tech Cybertron Cytronix Daewoo	0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0666 0666 0667 0666 0666 0667 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digilome Digilome Digital Device Digital Life Digitek Digitek Digitex Digitor Digix Dikom Dixi DL DMTech Domeos DongBao	0730 0733 0746 0747 0750 0751 0759 3808 0770 0770 0772 0779 0780 0772 0779 0780 0780 0780 0780 0780 03520 3391 0807 0813 0807 0813 0817 4098
Concorde Condor Conia Conrac Conrowa Contec Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Mathes CWN CWR-Tech Cybertron Cytronix Daewoo	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 0664 0665 0666 0666 0666 0666 0667 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digithax Digital Device Digital Device Digital Life Digitek Digitek Digitex Digitor Digix Dikom Dki DL DMTech Domeos DongBao DongBao	0730 0733 0746 0747 0750 0751 0759 3808 0779 0772 0772 0779 0780 0771 0779 0780 0781 3391 0807 0810 0813 0817 4098 0020
Concorde Condor Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Daewoo	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0666 0667 0666 0667 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digiline Digital Device Digital Life Digitek Digital Life Digitex Digitor Digix Dikom Dixi DL DMTech Domeos DongBao Dongda	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0772 0779 0770 0779 0780 0772 0779 0780 0781 3520 3391 0807 0813 0817 4098 0820
Concorde Condor Conia Conrac Conraca Contrec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Curtis Curtis Curtis Curtis Curtis CWN CWR-Tech Cybertron Cytronix Daewoo	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 0664 0665 0666 0666 0667 0668 4778 0675 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digilome Digihome Digital Device Digital Life Digital Life Digitak Digitek Digitek Digitex Digitor Digix Dikom Dixi DL DMTech Domeos DongBao Dongda Elmak	0730 0733 0746 0747 0750 0751 0759 3808 0779 0779 0772 0779 0780 0772 0779 0780 0781 3520 3391 0807 0810 0817 4098 0820 0907
Concorde Condor Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Mathes CWN CWR-Tech Cybertron Cytronix Daewoo	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 0664 0665 0665 0666 0666 0666 0667 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digilome Digiline Digiline Digital Device Digital Device Digital Life Digitek Digitek Digitek Digitex Digitor Digits Dikom Dixi DL DMTech Domg8ao Dong8ao Dong8ao Elmak Elonex	0730 0733 0746 0747 0751 0758 0759 3808 0770 0772 0779 0770 0772 0779 0781 3520 3391 0807 0810 0813 0817 4098 0820 0907 4019
Concorde Condor Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Dageno Cybertron Cybertron Cybertron Cybertron Cybertron Curtis Dageno Curtis Dageno Curtis Dageno Curtis Dageno Curtis Dageno Curtis Dageno Curtis Curtis Dageno Curtis Curtis Curtis Curtis Curtis Curtis Dageno Curtis	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0666 0667 0666 0667 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digilome Digithome Digital Device Digital Life Digitek Digitek Digitex Digitex Digitor Digix Dikom Dixi DL DMTech Domeos DongBao Dongda Elmak Elonex Elta	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0770 0770 0772 0779 0780 0772 0779 0780 0781 3520 3391 0807 0813 0807 0813 0817 4098 0820 0907 4019 0910
Concorde Condor Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Mathes CWN CWR-Tech Cybertron Cytronix Daewoo Donghai DongHua Donglin Drean	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 0664 0665 0666 0666 0666 0667 0668 4778 0675 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digitha Digital Device Digital Device Digital Life Digitak Digitek Digitek Digitex Digitor Digix Dikom Dixi DL DMTech Domeos DongBao DongBao DongBao Elmak Elonex Elta Emerson	0730 0733 0746 0747 0750 0751 0759 3808 0779 0772 0772 0779 0780 0781 3391 0807 0810 0813 0817 4098 0820 0907 4019 0910
Concorde Condor Conia Conrac Conrac Controwa Contec Costinental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Daewoo	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0667 0666 0667 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digithome Digital Device Digital Life Digitek Digitek Digitex Digitor Digita Dikom Dixi DL DMTech Domeos DongBao Dongda Elmak Elonex Elta Emerson o gention	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0770 0770 0770 0772 0779 0780 0773 3520 3391 0807 0813 0817 4098 0820 0907 4019 0910 0917 3406
Concorde Condor Conia Conrac Conrac Contrac Contrec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Daghai Donghia Donglin Dise Dise Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Dageno Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Curtis Dageno Curtis C	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 0664 0665 0666 0667 0668 4778 0675 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digihome Digihome Digital Device Digital Life Digital Life Digital Life Digitek Digitex Digitor Digix Dikom Dixi DL DMTech Domeos DongBao DongBao DongBao Elmak Elonex Elta Emerson e-motion	0730 0733 0746 0747 0750 0751 0759 3808 0779 0779 0772 0779 0780 0772 0779 0780 0781 3520 3391 0807 0810 0817 4098 0820 0907 4019 0910 0917 3496
Concorde Condor Conia Conrac Conrowa Contec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Mathes CWN CWR-Tech Cybertron Cytronix Daewoo Donghai Donglin Drean DSE DTS	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0667 0666 0667 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digital Device Digital Device Digital Life Digitek Digitek Digitex Digitor Digix Dikom Dixi DL DMTech Domg8ao Dong8ao Dong8ao Dong8ao Elmak Elonex Elta Emerson e-motion Emperor	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0772 0779 0780 0772 0779 0781 3520 3391 0807 0813 0817 4098 0820 0907 4019 0910 0917 3496 0921
Concorde Condor Conia Conrac Conrac Contrec Continental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Daewoo	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0666 0667 0668 4778 0665 0666 0667 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digilome Digilome Digital Device Digital Life Digitek Digitek Digitex Digitor Digix Dikom Dixi DL DMTech Domeos DongBao Dongda Elmak Elonex Elta Emerson e-motion Emperor Energy Sistem	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0770 0770 0772 0779 0780 0772 0779 0780 0780 0781 3520 3391 0807 0813 0807 0810 0813 0817 4098 0820 0907 4019 0910 0917 3496 0921 0926
Concorde Condor Conia Conrac Conrac Conrowa Contec Cosmel Crosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Mathes CWN CWR-Tech Cybertron Cytronix Daewoo Donghai DongHua Donglin Drean DSE DTS Dual Dual Dual Dual	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 0664 0665 0666 0666 0666 0667 0668 4778 0675 0681 0692	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digitha Digital Device Digital Life Digitek Digitek Digitek Digitek Digitex Digitor Digix Dikom Dixi DL DMTech Domg8ao Dong8ao Dong8ao Dong8ao Elmak Elonex Elta Emerson e-motion Emperor Energy Sistem	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0772 0779 0780 0772 0779 0781 3520 3391 0817 0810 0813 0817 4098 0820 0907 4019 0910 0917 3496 0921 0926 0933
Concorde Condor Conia Conrac Conrac Controwa Contec Costinental Edison Cosmel Crosley Crown CS Electronics CTC CTC Clatronic C-Tech CTX Curtis Daewoo	0626 0627 0628 0632 0634 0635 0637 0647 0655 0658 0663 0664 3527 0449 0665 0666 0667 0666 0667 0666 0667 0668 4778 0675 0681 0692 0821 4099 4100 0832 0833 0837 0838 3528	Denko Denver Desmet Diamant Diamond Dick Smith Electronics Digatron Digihome Digiline Digitalme Digital Life Digital Life Digitek Digitex Digitor Digix Dikom Dixi DL DMTech Domeos DongBao DongBao DongBao DongBao Elmak Elonex Elta Emerson e-motion Emperor Energy Sistem Envision	0730 0733 0746 0747 0750 0751 0758 0759 3808 0770 0770 0770 0770 0772 0779 0780 0771 0779 0780 0771 0779 0780 0772 0779 0780 0772 0779 0780 0772 0779 0780 0772 0779 0780 0772 0779 0780 0772 0779 0780 0772 0779 0780 0781 0751 0772 0779 0780 0781 0753 0779 0780 0771 0780 0781 0780 0781 0780 0781 0780 0781 0772 0779 0780 0780 0781 0780 0781 0780 0781 0780 0781 0780 0781 0780 0781 0780 0781 0780 0780 0781 0780 0781 0780 0781 0780 0781 0780 0781 0780 0781 0780 0780 0781 0780 0781 0807 0810 0817 4098 0820 0907 4019 0910 0917 3496 0921 0926 0933



Duongjie	4101	Epson	0937
Durabrand	0842	Erisson	4057
Dux	0843	Erres	0942
D-Vision	0684	ESA	0943
DVX	0847	ESC	0945
DX Antenna	0849	Ether	0948
Dynatron	0855	Etron	0949
Dynex	3476	Eurofeel	0954
Dyon	4769	EuroLine	0955
E:max	0856	Euroman	0956
Easy Living	0860	Europa	0957
Ecco	0864	Europhon	0959
ECE	0865	Evelux	4783
Elbe	0880	Evesham	0972
Elbe-Sharp	3529	Evolution	0973
Elcit	0883	Excello	0975
Electa	3530	Expert	0976
Electrion	4787	Exquisit	0978
ELECTRO TECH	3531	Fagor Life	4102
Electroband	0888	Feilang	0990
Electrograph	0889	Fellu	0991
Electronome	0890	Felyan	0992
Electronic	4521	Felyue	0993
Elekta	0895	Fenmenti	4103
Elektra	0896	Fenner	0994
Element	34/7	Ferguson	0996
Ellurik	0899	Fidelis	4522
ELG	0900	Fidelity	0998
Elito	0902	Filmet	1000
Einlandia	1002	Gaporal Tachnic	1000
Finlux	1003	Genesis	1095
Finter	1004	Genevya	1090
Firstar	1007	Gericom	1103
Firstline	1008	GEM	3820
Fisher	1009	G-Hanz	3397
Flint	1014	Giant	1113
FNR	1016	GM	4523
Formenti	1023	GMG	4524
Formenti-Phoenix	1024	Gold	3823
Fortress	1027	Goldfunk	1135
Fraba	1030	GoldHand	1136
France Telecom	1033	Goldline	1138
Friac	1040	GoldStar	1140
Frontech	1042	Goodmans	1142
Fuchsware	3915	Gorenje	1144
Fujicom	1048	GP	1147
Fujitsu	1052	GPM	1149
Fujitsu General	1053	Gradiente	1151
Fujitsu Siemens	1054	Graetz	1152
Funai	1056	Granada	1154
Furi	1057	Grandin	1156
Furichi	1058	Great Wall	4105
FUTEC	3960	Gronic	1160
Futronic	1061	Grundig	1162
Gaba	4059	Grunkel	1164
Galaxi	1068	GVA	3510
Galaxis	1069	Н&В	1171
Galeria	3633	Haaz	1172
Gangtai	4104	Haier	1175
Ganxin	10/2	Haihong	1176
(ateway	1070		*****
catchay	1076	Haile	4106
GBC	1076 1078	Haile Haiyan	4106 1177 1178
GBC GE	1076 1078 1081	Haile Haiyan Halcro	4106 1177 1178



GEC	1083	Hallmark	1180
Geloso	1087	Hammerstein	3636
General	1090	Hampton	1183
General Electric	1091	Hankook	1188
Hanns.G	3478	Huafa	1287
Hannspree	1189	Huanghaimei	1288
Hanseatic	1190	Huanghe	1289
Hantarex	1192	Huanglong	1290
Hantor	1193	Huangshan	1291
Harwa	1203	Huanyu	1292
Harwood	1203	Huagiang	1293
Hauppauge	1204	Huari	1294
Havermy	1200	Hugoson	1297
нсм	1200	Hujijahan	1108
Hema	1210	Humay	1208
Hemmermann	1222	Huodateii	1200
Horan	2020	Hugashi	1302
Howlott Backard	1220	Hypor	1300
	1229	Нурсар	1212
Hison	1220	Hyundai	1312
Hitiyoy	1232	Hyulluai	1315
HIIVOX	1233	Iberia	1320
Higashi	1234	ICE	1324
Highlander	3829	ICE/IIS	4526
Highline	1236	ICeS	1325
Hikona	1237	ICT	1328
HiLine	3533	IDEAL	3641
Hinari	1243	IISonic	1334
Hisawa	1247	liyama	1335
Hisense	1249	Imperial	1346
Hisonix	4525	Imperial Crown	1347
Hitachi	1251	Indesit	1349
Hitachi Fujian	1252	Indiana	1350
Hitec	1253	Ingelen	1354
Hitsu	1257	Ingersol	1355
Hoeher	1262	Ingersoll	3642
Homita	4843	Inno Hit	1358
Hongmei	1272	Innova	1359
Hongyan	1274	Innovation	1360
Hornyphon	1277	Innowert	1362
Hoshai	1278	Inotech	1364
Hotel TV	4107	Insignia	1368
HP	1283	Inspira	4296
Hua Tun	1286	INTER	4109
Interactive	3534	Kaisui	1471
Interbuy	1376	Kambrook	1473
Interfunk	1377	Kamosonic	3535
Internal	1379	Kamp	1475
International	1380	Kangchong	1476
Intervision	1386	Kanghua	1477
IR	110	Kangli	1478
Irradio	1396	Kangwei	1115
IRT	1397	Kangwei	1/79
leukai	1402	Kangyi Kansas Tachnologias	1475
IT	1402	Kansas Technologies	1401
ITC	1404	Karcher	1484
ITC	1405	Kathroin	1496
113	1405	Kaura	1407
	1400	Kawacho	1487
	1407	Kawasho Kan Danung	1400
117	1408	Ken Brown	1499
ICB	1421	Kendo	1500
JDV	1423	Kennedy	1504
Jean	1424	Kennex	1505
JEC	1426	Kenstar	3756
JGC	1434	Keymat	3499
Jiahua	1435	Khind	1511



lialiCai	1436	KIC	1510
Jialicai	1450	KIC .	1312
Jian Sheng	4112	Kingsley	1520
Jinfeng	1438	Kiota	1522
Jinhai	1439	Kioto	1523
Jinlipu	4113	Kiton	1525
lingue	1440	Klarmax	4527
linto	1440		1521
Jinta	1441	KLL	1531
Jinxing	1442	Kneissel	1535
Jinxingban	4114	Kobra	1537
JMB	1445	Kolin	1541
JNC	1446	Kolster	1543
local	1//9	Kongguo	1545
19201	1440	Kongque	1545
JIV	3645	Konichi	1546
Jubilee	1460	Konig	1547
Juhua	1461	Konka	1548
JVC	1464	Korpel	1552
Kaige	1470	Korting	1554
Kasmas	1667	Lodos	1650
KOSITIOS	1557	Lodos	1659
Kotron	1560	Loewe	1660
Koyoda	1561	Loewe Opta	3540
Kross	1571	Logik	1661
ктv	1572	Logix	1663
Kuaile	1573	Longijang	1664
Kualie	1373	Longjiang	1004
Kulun	15//	Luker	1673
Kunlun	1578	Luma	1674
Kuro	1579	Lumatron	1676
Kvoshu	1583	Lux May	1680
Kyoto	1585	Luxor	1683
L & C Electronic	1505		1685
Las Electronic	1366		1000
Lasai	1597	M Electronic	1688
Lavis	1602	Maaz	4529
Layco	4117	Madison	1698
Leader	1604	Magnadyne	1702
Losson	1606	Magnaton	1702
Lecson	1608	Magnaton	1705
Legend	1609	iviagnavox	1706
Lenco	1615	Magnum	1709
Lenoir	1617	Mandor	1717
Lentec	3405	Manesth	1718
Lerico	4528	Manhattan	1719
Loso	1620	Magma	1722
Lesa	1622	iviaqma	1/22
Lexsor	1626	Marantz	1/24
Leyco	1627	Marelli	1729
LG	1628	Mark	1731
LG/Goldstar	3536	Marks and Spencer	3585
Liesenk	3537	Mascom	1738
Liocopk & Ttor	1620	Mastor's	1742
Liesenk & Tter	1050	iviaster s	1742
Liesenkotter	1631	Mastro	1/43
Life	3538	Masuda	1744
Lifetec	1633	Matsui	1750
Lihua	1636	Matsushita	1751
Llovds	3539	Maxam	3651
Lloyds	1649	Maxdorf	1756
	1046	IVIAXUUTI	1/36
Local Calcutta TV	1651	Maxell	4477
Local Chennai TV	1652	Maxent	1757
Local India TV	1653	Maxim	1759
Local Malaysia TV	1656	Maxwell	1763
MCF	1766	Monix	4298
McMichael	1760	Maraa	4250
iviciviicnaei	1/08	ivioree	4005
Meck	1//5	Morgans	3970
Mediator	1784	Morgan's	1875
Mediencom	1786	Motion	1877
Medion	1787	Motorola	1878
Medison	1788	MTC	1889
Mogac	1700	MTEC	1900
wegas	1/92	IVITEC	1930
Megatron	1795	MTIogic	1892



MEI	1796	Mudan	1896
Meile	1797	Multistandard	1904
MeiShi	4118	Multisystem	4121
Melectronic	3654	Multitec	1906
Melvox	1799	Multitech	1907
Memorex	1800	Murphy	1911
Memory	1801	Musikland	1915
Memphis	1802	My Onda	1919
Mengmei	/110	Myryad	1922
Mercury	1804	NAD	1926
Mermaid	1806	Naiko	1930
Morritt	2655	Nakimura	1022
Metropic	1800	Nanhao	1933
Metz	1810	Nalibao	1934
NICA	1010	Nansieng	1935
Niga	1011	Naulis	1930
Nicromax	1822	Narila	1939
Microspot	3849	NAT	1941
Microstar	1827	National	1942
MICROTEK	1829	NEC	1950
Mikomi	1833	Neckermann	1951
Minato	1835	NEI	1952
Minerva	1838	NEO	3947
Ministry Of Sound	4247	Nesco	1960
Minoka	1840	Netsat	1966
Mirai	1849	NetTV	1967
Mitsai	3851	Network	1968
Mitsubishi	1855	Neufunk	1970
Mivar	1857	New Tech	1979
MoDeng	4120	New World	1980
Monaco	1868	Newave	1981
Nicamagic	1994	Optimus	2095
Nikai	4566	Optonica	2099
Nikkai	1998	Orava/OTF	4530
Nikkei	1999	Orbit	2103
Nikko	2000	Orion	2111
Nimbro	4065	Orline	2113
Nintaus	2006	Ormond	2114
Noblex	2013	Orsowe	2116
Nobliko	2014	Osaki	2118
Nogamatic	2016	Oscar	2120
Nokia	2017	Osio	2120
Norcent	2020	050	2121
Nordic	2020	Osumo	2122
Nordmondo	2021	Otako	2125
Nordvision	2022	Otic	2124
Normaral	3024	Otto Vercend	2125
Nortok	2024	Oulin	4122
Nortex	3002	Dasifia	4125
Novationic	2033	Pacific Declored Dell	2135
Novex	4507		2156
Novila	2037	Pael	2140
Nu-Tec	2048	Palladium	2145
O.K.Line	4301	Paisonic	2147
Oceanic	2061	Panache	4069
Udeon	2064	Panama	2149
Odys	4066	Panasonic	2153
Okana	4122	Panavision	2154
Okano	2065	Panda	2155
OKI	4067	PARK	3951
Olevia	2067	Pathe Cinema	2168
Omega	2072	Pathe Marconi	2169
Omni	2074	Pausa	2171
ONCEAS	3544	Peng Sheng	2181
Onei	4302	Penney	2182
Onida	2081	Pensonic	3778
Onimax	2082	Perdio	2185



Onn	3663	Perfekt	2186
Onwa	2087	Pershin	2188
Onyx	3864	Petters	2189
Opera	2090	Philco	2192
Philharmonic	2194	Prosco	2280
Philips	2195	Prosonic	2282
Phocus	2198	Protech	2284
Phoenix	2199	Proton	2288
Phonola	2201	Protron	2289
Phonotrend	2201	ProVision	2203
Pilot	2202	Puision	2200
Pionoor	2207	PVSION	2300
Pionier	2212	Pye	2302
Plonter	2213	Pymi	2304
Plantron	2219	Qingdao	2308
Playsonic	2224	Quadro	40/1
Polaroid	2230	Quandra vision	3546
Polestar	4124	Quasar	2320
Policom	2231	Quelle	2322
Polyvision	4304	Questa	2324
Рорру	2236	Radialva	2329
Portland	2238	Radio	4128
Powerpoint	2241	Radiola	2330
Prandoni	4531	Radiomarelli	2331
Prandoni Prince	4125	Radionette	2332
Prandoni-Prince	2242	RadioShack	2333
Praxis	2243	Radiotone	2334
Precision	2244	Rank	2345
Premier	2248	Rank Arena	2346
President	2250	RBM	2350
Prima	2253	RCA	2351
PrimeView	3513	Bealistic	2354
Princess	3514	Becco	2358
Pringston	2250	Becor	2350
Prinz	2255	Rectiliano	2335
Profekt	4126	Rectilighte	2302
Profess	4120	Reditusion	2304
Profex	2269	Redstar	2300
Profi	2270	Reflex	2368
Profilo	2272	Relisys	2374
Profitronic	2273	Remotec	2377
Proline	2274	Reoc	2379
Promac	3779	Revox	2383
Promax	2275	Rex	2385
Proscan	2279	RFT	2386
Rhapsody	2387	Sei-Sinudyne	2525
Rinex	2392	Seitech	3433
Risheng	4129	Seleco	2528
Rizhi	4130	Semivox	2529
R-Line	2327	Semp	2530
Roadstar	2398	Sencora	2531
Robotron	2401	Sentra	2534
Rolson	2410	Serie Dorada	2538
Rowa	2416	Serino	2539
Boyal	2410	Seve	4131
Roval Lux	2420	Shancha	2546
RTE	25/8	Shangguangdian	4132
Bundi	2425	Shangbai	2547
ruyi Saba	2423	Shanshui	234/ 4122
Sada	2429	Shanshui	4133
sagem	2434	shaoteng	2549
Saige	2435	Sharp	2550
Saisho	2437	Shen Ying	2552
Saivod	2439	Shencai	2553
Salora	2443	Sheng Chai	3922
Sambers	2445	Sheng Chia	2554
Sampo	2446	ShengCai	4217
Samsung	2448	Shengli	4134



Sandra	2454	Shenvang	2555
Sanura	2454	Chamurand	2555
Sanjian	2455	Sherwood	2557
Sansui	2458	Shinelco	4074
Santon	2459	Shintoshi	2564
Sanyo	2462	Shivaki	2567
Sanvuan	2464	Shiwan	4532
SBR	2492	Shorai	2569
Scontro	2492	Show	2570
Sceptie	2458	Show	2370
Schaub Lorenz	2500	Shuyuan	4135
Schneider	2501	Siam	2572
Scotch	2506	Siarem	2573
Scott	2508	Siemens	2574
Sears	2514	Siera	2576
Seaway	2515	Siesta	2577
Socher	2515	Silvo	2501
Seelver	2520	Silva Cabaa idaa	2591
SEG	2522	Silva Schneider	2592
SEI	2524	Silver	2594
SilverCrest	2595	Squareview	2703
Singer	2599	Srypton	4138
Sinotec	2600	Scangyong	2706
Sinuduno	2600	Stag	2700
Silluuyile	2601	Stag	2/11
Skantic	2605	Staksonic	2712
SKY	2610	Standard	2713
SKY Brasil	3923	Starlite	2728
Skysonic	2627	Starlux	4533
Skyworth	2631	Stenway	2739
Clidian	2631	Sterr	2733
Sliding	2035	Stern	2741
SLX	2638	Stevison	2742
S-Media	3515	Strato	2745
Soemtron	2647	Strong	2748
Sogera	2649	Stylandia	2752
Sogo	2650	Sunkai	2762
Solavov	2650	Sunny	2764
SUIAVUX	2034	Sunny	2764
Sonawa	2663	Sunstar	2768
Songba	2665	Sunstech	2769
Songbai	4322	Sunwood	2772
Songdian	4136	Superla	2782
SongRi	4137	Superscan	2786
Soniko	2669	Supersonic	2787
Sonic	2005	Supersonie	2707
Soniq	2670	SuperTech	2789
Sonitron	2671	Supervision	2791
Sonneclair	2673	Supra	2792
Sonoko	2675	Supratech	2793
Sonolor	2676	Supreme	2795
Sontoc	2677	Sucumu	2707
Contrach	2077	Susuina	2757
Sontech	5455	Sution	2/98
Sony	2679	SVA	2800
Sound & Vision	2680	Svasa	2801
Soundesign	2684	Sven	3886
Soundmaster	2685	Swedx	2803
Soundwave	2689	Swisster	2806
Sova	2600	SWID	2907
Sova	2090	SWF	2807
SOWa	2031	syuney	20U8
Soyea	2692	Sylvania	2809
Soyo	2693	Symphonic	2810
Spectra	2697	Synco	2811
Sysline	2815	Tek	2892
Sytong	2820	Teknant	4534
	2020	Toknika	2005
TTA TTA	2021		2055
I acico	2823	reie+1	2900
Tactus	2825	Teleavia	2901
Tai Wah	4139	Telecor	2910
Tai Yi	2833	Telefunken	2914
Taishan	2835	Telefusion	2915
Talent	2838	Telegazi	2917



Tantęc 2843 Telegran 4355 Tartąc 2845 Telesrvice 2930 Tartąn 2847 Telesrvice 2930 Tathiko 2850 Telestari 2931 Tatung 2852 Telestari 2931 TCL 2856 Telestari 2933 TCM 2856 Televideon 2938 Teac 2860 Televideon 2934 Teck 2861 Temoc 2941 Techna 2865 Tensia 2935 Technia 2865 Tensia 2934 Technia 2866 Tensia 2934 Technia 2865 Tensia 2936 Technia 2873 Tersia 3680 Technia 2873 Tersia 2942 Technica 2874 Toorn 2974 Techno 2975 Techno 2976 Techno 2875 Toorn 2994 Tec	Tandberg	2842	Telemeister	2924
Tarke 2845 Telesonic 2929 Tarkino 2850 Telesonic 2931 Tabung 2850 Telesonic 2931 Tokung 2852 Telesonic 2931 TCL 2856 Telesonic 2933 Teac 2860 Televikon 2939 Teachinagen 4140 Televikon 2946 Techina 2863 Tennessee 2952 Techina 2866 Tensnai 2954 Techina 2866 Tensnai 2951 Techina 2869 Tesnai 3550 Techina 2873 Tervina 2952 Techina 2873 Tervina 2952 Techina 2873 Torvina 2972 Techina 2873 Torvina 2972 Techina 2874 Torvina 2974 Techina 2874 Torvina 2974 Techina 2874 Torvina 2946	Tandy	2843	Teleopta	4535
Targa 2847 Telestar 2930 Tashiko 2850 Telestar 2931 Tatung 2852 Teletch 2934 TCL 2856 Teleton 2935 TCM 2857 Teleview 2939 Tex 2860 Teleview 2939 Texhinagen 4140 Teleview 2939 Texhinagen 4140 Teleview 2939 Technia 2861 Tennos 2952 Technea 2865 Tennai 2953 Technia 2868 Tenson 2961 Technika 2873 Tesia 3680 Technisa 2873 Tesia 2962 Technika 2873 Tesia 2964 Technoison 2774 Texet 2963 Technoison 2874 Thorn-Ferguson 2974 Technoison 4307 Tankeban 4141 Tane 2980 Tobina 2901	Tantec	2845	Teleservice	2929
Taking 2850 Teletarh 2931 Takung 2852 Teletoh 2934 TCL 2856 Televideon 2938 Teac 2860 Televideon 2938 Teac 2861 Televideon 2934 Tech 2861 Tempest 2946 Techlan 2865 Tennessee 2952 Technema 2866 Tensai 2953 Technics 2869 Tesian 3680 Technics 2869 Tesian 3680 Technics 2873 Tevion 2952 Technics 2874 Tesian 3680 Technics 2875 Thomon 2972 Technosonic 2878 Thom-ferguson 2976 Technovision 4141 Tiankeban 4142 Technovision 4307 Tiankeban 4142 Technovision 2885 TMK 2994 Tecio 2886 TMK 2994	Targa	2847	Telesonic	2930
Tatung 2852 Teletch 2934 TCL 2856 Televice 2935 TEAC 2860 Televice 2939 Teschimagen 4140 Televice 2939 Teschimagen 2861 Tempest 2946 Techina 2865 Tennsise 2952 Techina 2866 Tensia 2954 Technia 2866 Tensia 3680 Technia 2869 Tesia 3680 Technika 2873 Tevion 2962 Technol 2976 Tesia 2964 Techno 2978 Thorn 2974 Techno 2878 Thorn 2974 Technotrend 2879 Torn Perguson 2974 Technotrend 2885 TMK 2993 Techo 2886 Tinty Digital 2887 Teco 2886 TMK 2993 Techo 2901 Toka 3001	Tashiko	2850	Telestar	2931
TCL 2856 Televideon 2935 Teac 2660 Televideon 2938 Teac 2660 Televiso 2941 Tech 2661 Tempost 2946 Techuina 2663 Tempost 2948 Techuina 2666 Tensia 2957 Technica 2666 Tensia 3680 Technica 2669 Tesia 3680 Technica 2874 Teson 2972 Technisa 2874 Tevin 2963 Technis 2875 Thorn 2972 Technosonic 2878 Thorn-freguon 2976 Technovision 4141 Tiankeban 4142 Techvoxol 2885 TMK 2994 Teco 2886 TMK 2994 Teco 2886 TMK 2994 Teco 2886 TMK 2994 Teco 2886 TMK 2994 Toredae	Tatung	2852	Teletech	2934
TCM 2857 Televicew 2938 Teac 2600 Televicew 2939 Texhimagen 4140 Televicew 2939 Texhimagen 4140 Temco 2946 Techuine 2863 Tempest 2948 Technika 2866 Tenssia 2951 Technika 2869 Tesia 3680 Technika 2873 Tevion 2962 Technika 2873 Tevion 2962 Technol 4076 Texa 2963 Technol Ace 2875 Thornon 2974 Technol Ace 2875 Thorn 2974 Technotion 4141 Tiane 2980 Technovision 4141 Tiane 2980 Technovision 4141 Tiane 2980 Techovo 2884 Tiny Digital 2887 Techovo 2884 Tiny Digital 2887 Techovo 2890 Tobo 2999	TCL	2856	Teleton	2935
Teachinagen 440 Televiso 2931 Tech. 2861 Temco 2941 Tech. 2863 Tempest 2948 Tech. 2863 Tempest 2948 Technica 2866 Tensai 2951 Technica 2868 Tenson 2953 Technics 2869 Tesinet 3550 Technics 2873 Tevion 2963 Technics 2874 Texet 2963 Techno 4076 Textal 2964 Techno 4076 Textal 2963 Techno 4076 Textal 2963 Techno 4076 Textal 2963 Technosonic 2878 Thorm 2974 Technoson Technoval 2879 Thorn-Ferguson 2976 Technoval 4307 Tiankeban 4142 Technoval 3804 Tiny Digital 2987 Technoval 3804 Tiny Digital 298	тсм	2857	Televideon	2938
Teck 2861 Telviso 2946 Tech 2863 Tempest 2946 Techuine 2863 Tempest 2948 Techuine 2865 Tennesce 2952 Techuine 2869 Tesian 2955 Technika 2869 Tesian 3680 Technika 2873 Tevion 2962 Technisan 2873 Tevion 2964 Technisan 2873 Tevion 2964 Technol Ace 2875 Thorm 2974 Technotino 2878 Thorn 2974 Technotion 4307 Tiankeban 4142 Technotion 4307 Tiankeban 4142 Technotion 4307 Tiankeban 4142 Technotion 4307 Tiankeban 4142 Technotion 4302 Tokai 3001 Technotion 4302 Tokai 3001 Technotion 3020 Venturer 31	Teac	2860	Teleview	2939
Fec 2861 Temco 2946 Techcia 2863 Tempest 2948 Techcia 2865 Tensai 2954 Technia 2869 Tessai 2954 Technika 2870 Tesmet 3550 Technika 2870 Tesmet 3550 Technika 2870 Tesmet 2963 Technisat 2875 Thornson 2972 Technosonic 2878 Thorn 2976 Technosonic 2879 Thorn-Ferguson 2976 Techonodo 2840 Tiny Digital 2980 Techovision 441 Tiane 2990 Techovision 4307 Tiankeban 4142 Techovision 2885 TMK 2994 Teco 2886 Tiny Digital 2981 Tektaido 3002 Venturer 3143 Tosgala 3010 Vibrant 3155 Toppline 3016 Videcon 316	Teachimagen	4140	Televiso	2941
Techia 2863 Tempest 2948 Technema 2865 Tennesice 2952 Technia 2868 Tensai 2955 Technika 2870 Tesla 3680 Technika 2873 Tevion 2962 Technisis 2873 Tevion 2962 Technisis 2873 Tevia 2964 Technois 2878 Thorn 2974 Technoit 2878 Thorn 2974 Technotrend 2879 Torn-Ferguson 2976 Technoxion 4141 Tianeban 4142 Technoxion 4307 Tiankeban 4142 Technoxion 4307 Tiankeban 4142 Technoxion 2885 TML 2994 Techo 2885 Tokai 3001 Tomashi 3006 Vestel 3143 Torgung 3008 Vestel 3144 Tongung 3006 Vestel 3149 <	Tec	2861	Temco	2946
Techica 2865 Tenessee 2954 Technica 2866 Tenson 2954 Technika 2870 Tesia 3680 Technika 2870 Tesmet 3550 Technika 2870 Tesmet 2963 Technisa 2873 Tevion 2963 Techno 4076 Text 2963 Techno 4076 Text 2963 Technosonic 2878 Thorn 2976 Technosonic 2879 Thorn-Ferguson 2976 Technovision 4141 Tiane 2980 Technovision 4141 Tiane 2980 Technovision 4307 Tiankeban 4142 Techovision 4307 Tiankeban 4142 Techovision 4307 Tiankeban 4142 Techovision 2886 TMK 2995 Teckovision 3001 Vision 3143 Tokyo 3006 Vesta 3	Tech Line	2863	Tempest	2948
Technema 2866 Tensai 2954 Technics 2868 Tenson 2955 Techniks 2870 Tesla 3880 Techniks 2873 Tevion 2962 Technison 2744 Text 2663 Techno 4076 Text 2964 Technol Ace 2875 Thomson 2974 Technotrend 2878 Thorn-Ferguson 2976 Technotrend 2879 Thorn-Ferguson 2976 Technovision 4141 Tiankeban 4142 Technovision 4307 Tiankeban 4142 Technovision 2884 Tiny Digital 2987 Technovision 2885 TMk 2994 Technovision 2880 Tokai 3001 Technovision 2891 Tokai 3008 Tokaido 3002 Venturer 3143 Tokyo 3006 Vesta 3149 Tongeuang 3006 Vesta	Techica	2865	Tennessee	2952
Technica 2668 Tenson 255 Technika 2870 Tesinet 3560 Technika 2873 Tevion 2962 Technison 2874 Tevion 2962 Technison 2874 Tevin 2963 Techno 4076 Tevit 263 Techno 4076 Tevit 2974 Technosonic 2878 Thorn 2972 Technosonic 2878 Thorn-Ferguson 2976 Technovision 4141 Tiane 2980 Technovision 4307 Tiankeban 4142 Technovision 4307 Tiankeban 4142 Technovision 4307 Tiankeban 4142 Technovision 2886 TML 2994 Tecko 2891 Toka 3001 Tokaid 3004 Venutrer 3143 Torkaid 3006 Vesus 4308 Tongaing 3006 Vestue 3144<	Technema	2866	Tensai	2954
Technics 2869 Tesla 3880 Technika 2870 Tesmet 3550 Technikat 2873 Tevion 2963 Techno 4076 Text 2963 Techno 4076 Text 2964 Technol Ace 2875 Thomon 2974 Technosinic 2878 Thorn-Ferguson 2976 Technosinic 4141 Tiankeban 4142 Technovision 4141 Tiankeban 4142 Technovision 4307 Tiankeban 4142 Technovision 2885 TML 2994 Teco 2886 TML 2994 Teco 2881 Tokai 3001 Tokaido 3002 Venurer 3143 Tongung 3006 Vestel 3148 Tongung 3006 Vesta 3149 Tongung 3006 Vesta 3174 Topshow 3681 Videocon 3163	Technica	2868	Tenson	2955
Technika 2870 Tesmet 3550 Technisson 2873 Tevion 2962 Technisson 2874 Texet 2963 Technol Ace 2875 Thomson 2972 TechnolAce 2878 Thorn 2974 Technosonic 2878 Thorn-Ferguson 2976 Technovision 4141 Tiane 2980 Technovision 4307 Tiankeban 4142 Techwood 2884 Tiny Digital 2987 Tecinagen 2885 TML 2995 Tecio 2891 Tokai 3001 Tokaido 3002 Venturer 3143 Tonguang 3008 Vestel 3148 Tonguang 3008 Vestel 3148 Topshow 3016 Victor 3155 Tosini 3023 Videologic 3165 Tosinia 3023 Videocon 3148 Tongele 3016 Videocon <	Technics	2869	Tesla	3680
Technisat 2873 Tevion 2962 Technison 2874 Texa 2963 Technon 4076 Texla 2964 TechnolAce 2875 Thorn 2972 Technosonic 2878 Thorn 2974 Technovion 4141 Tiankeban 4142 Technovion 4307 Tiankeban 4142 Technovion 2884 Tiny Digital 2987 Technovion 2885 TML 2994 Techovion 2885 TML 2995 Teredekx 2889 Toba 3001 Tokaido 3002 Venturer 3143 Tokyo 3004 Venus 4308 Tongsing 3006 Vestel 3149 Tongtel 3010 Vibrant 3154 Topshow 3681 Victoro 3155 Topline 3016 Videologicu 3166 Towada 3023 Videologicu 3166	Technika	2870	Tesmet	3550
Techno 2574 Texet 2963 Techno 4076 Texla a 2964 Technol Ace 2875 Thornon 2972 Technosonic 2878 Thorn-Ferguson 2976 Technovision 4141 Tiane 2980 Techvision 4307 Tiankeban 4142 Techvood 2885 TMK 2994 Tecnimagen 2885 TMK 2995 Tedelex 2889 Tobo 2999 Tecino 2891 Tokai 3001 Tokaido 3002 Venturer 3143 Tokyo 3004 Venus 4308 Tongsung 3005 Vestel 3144 Tonguang 3010 Vibrant 3154 Toshiba 3021 Videologitoc 3166 Toyoda 3030 Videologitoc 3173 Trans Continens 3037 Videologitoc 3174 Transoni 3028 Videologitoc	TechniSat	2873	Tevion	2962
Techno 4076 Texla 2954 Technolace 2875 Thorson 2972 Technosonic 2878 Thorn 2974 Technosonic 2878 Thorn-Ferguson 2976 Technovision 4141 Tiane 2980 Techvoision 4307 Tiankeban 4142 Technovision 2884 Tity Digital 2987 Techovision 2885 TML 2994 Teco 2886 TML 2995 Tedekx 2899 Tobo 2999 Tokaido 3001 Venturer 3143 Tonguag 3006 Vestel 3148 Tonguag 3006 Vestel 3148 Tonguag 3016 Victor 3155 TopIne 3016 Videocon 3163 Tosuni 3023 Videocon 3163 Toyada 3030 Videocon 3172 Trakton 3036 Videocon 3173	Technisson	2874	Texet	2963
Technol Ace 2875 Thomson 2972 Technoorinic 2878 Thorn 2974 Technorend 2879 Thorn-Ferguson 2976 Technovision 4141 Tiane 2980 Techvision 4307 Tiankeban 4142 Techvision 2885 TMK 2994 Teciningen 2885 TML 2995 Tedelex 2891 Tobio 2999 Tecino 2891 Tokai 3001 Tokaido 3002 Venturer 3143 Tomashi 3006 Vestel 3148 Tonguang 3008 Vestel 3149 Toshiba 3010 Vibrant 3155 Topline 3016 Videocon 3163 Toshiba 3021 Videologique 3166 Towada 3023 Videologique 3166 Towada 3037 Videologique 3166 Tras Continens 3037 Videoton	Techno	4076	Texla	2964
Technosonic 2878 Thorn 2974 Technovision 4141 Tiane 2976 Technovision 4107 Tiane 2980 Technovision 4307 Tiankeban 4142 Technovision 4307 Tiankeban 4142 Technovision 2884 Tiry Digital 2987 Tecon 2885 TMK 2994 Teco 2886 TML 2995 Terion 2891 Toba 3001 Tokaido 3002 Venurer 3143 Tokyo 3004 Venus 4308 Tonggang 3006 Vexa 3149 Tongtel 3010 Vitor 3153 Topine 3016 Videologic 3166 Tosmin 3023 Videologic 3166 Tosuni 3023 Videologic 3166 Towada 3030 Videologicue 3166 Toyoda 3033 Videologicue 3166	Technol Ace	2875	Thomson	2972
Technotrend 2879 Thorn-Ferguson 2976 Technovision 4141 Tiane 2980 Techvision 4307 Tiankeban 4142 Techwood 2884 Tiny Digital 2987 Tecnimagen 2885 TMK 2995 Tedelex 2889 Toba 2999 Techoision 3001 Venturer 3143 Tokaido 3002 Venturer 3143 Tokajo 3004 Vestel 3148 Tongstel 3010 Vibrant 3154 Top Show 3681 Victor 3155 Topline 3016 Videologic 3163 Toshiba 3023 Videologique 3166 Towada 3028 Videologic 3165 Towada 3029 Videologic 3165 Towada 3030 Videologic 3165 Towada 3039 Videologic 3186 Transfec 4143 Vision	Technosonic	2878	Thorn	2974
Technovision 4141 Tiane 2980 Techvision 4307 Tiankeban 4142 Techwood 2884 Tiny Digital 2987 Tecnimagen 2885 TMK 2994 Teco 2886 TML 2995 Tedelex 2889 Tobo 2999 Tokaido 3001 Venturer 3143 Tokajdo 3004 Venus 4308 Tongguang 3008 Vexa 3149 Tongtel 3010 Vibrant 3154 Topshow 3681 Victor 3153 Topline 3016 Videologique 3166 Towada 3023 Videologique 3166 Towada 3023 Videologique 3166 Towada 3023 Videologique 3167 Trakton 3036 Videologic 3163 Trakton 3036 Videologic 3163 Trakton 3036 Videoton 3174 </td <td>Technotrend</td> <td>2879</td> <td>Thorn-Ferguson</td> <td>2976</td>	Technotrend	2879	Thorn-Ferguson	2976
Techwoid 4307 Tiankeban 4142 Techwoid 2884 Tiny Digital 2987 Tecnimagen 2885 TMK 2994 Teco 2886 TML 2995 Techwoid 2891 Tobo 2999 Teiron 2891 Tokai 3001 Tokaido 3002 Venturer 3143 Tongguang 3006 Vestel 3148 Tongguang 3006 Vestel 3154 Topshow 3681 Victor 3155 Topline 3016 Videologicu 3166 Toshiba 3023 Videologique 3167 Toyoda 3030 Videologique 3167 Toyoda 3030 Videologique 3167 Trans Continens 3039 Videologique 3164 Transfec 4143 Videologi 3174 Transfec 3041 Viewsonic 3186 Transtec 3042 Vison <	Technovision	4141	Tiane	2980
Techwood 2884 Tiny Digital 2987 Teconimagen 2885 TMK 2994 Teco 2886 TML 2995 Tedelek 2891 Tobo 2999 Tokaido 3002 Venturer 3143 Tokyo 3004 Venus 4308 Tongguang 3008 Vexa 3149 Tongguang 3008 Vexa 3143 Tongtel 3010 Vibrant 3155 Topline 3016 Videologic 3166 Tossibia 3021 Videologicue 3166 Towada 3028 Videologicue 3166 Towada 3030 Videologicue 3170 Trakton 3037 Videologicue 3173 Transfec 3041 Viewsonic 3173 Transfec 3042 Vison 3179 Transfec 3041 Viewsonic 3186 Transfec 3042 Vison 3194	Techvision	4307	Tiankeban	4142
Teco 288 TMK 2994 Teco 2886 TML 2995 Tedelex 2889 Tobo 2999 Teron 2891 Tokai 3001 Tokaido 3002 Venturer 3143 Tokyo 3004 Venus 4308 Tomashi 3006 Vestel 3149 Tongtang 3006 Vestel 3149 Tongtel 3010 Vibrant 3153 Topshow 3681 Victor 3163 Toshiba 3021 Videologic 3163 Toshiba 3023 Videologic 3163 Tosumi 3023 Videologique 3163 Towada 3036 Videost 3170 Trakton 3036 Videost 3174 Trakon 3036 Videost 3174 Transcontinens 3037 Videost 3179 Transcontinents 3039 Viditon 4498	Techwood	2884	Tiny Digital	2987
Tecco 2886 TML 2995 Tedelex 2891 Tobo 2999 Teiron 2891 Tokai 3001 Tokaido 3002 Venturer 3143 Tokyo 3004 Venus 4308 Tomashi 3006 Vestel 3149 Tongtel 3010 Vibrant 3154 Topshow 3681 Victor 3155 Topline 3016 Videocon 3163 Tosumi 3023 Videologique 3166 Towada 3028 Videosat 3170 Toyoda 3030 Videost 3173 Traston 3036 Videost 3173 Transcortinens 3037 Videoton 3174 Transfec 4143 Videoton 3174 Transfec 3041 Viewsonic 3186 Transfec 3041 Viewsonic 3186 Trasfec 4143 Videoton 3174 <t< td=""><td>Tecnimagen</td><td>2885</td><td>ТМК</td><td>2994</td></t<>	Tecnimagen	2885	ТМК	2994
Tedelex 289 Tobo 2999 Teiron 2891 Tokai 3001 Tokaido 3002 Venturer 3143 Tokyo 3004 Venus 4308 Tomashi 3006 Vestel 3148 Tonguang 3008 Vexa 3149 Tongtel 3010 Vibrant 3155 Topine 3016 Videon 3163 Toshiba 3021 Videologic 3165 Tosumi 3023 Videologique 3166 Toyoda 3030 Videosystem 3172 Trakton 3036 Videotechnic 3173 Transfec 4143 Videotechnic 3174 Transfec 3041 Viewonic 3186 Transfec 3042 Viore 3192 Transfec 3042 Viore 3192 Trasfec 3043 Visiola 3197 Trident 3054 Vision 3186 <	Тесо	2886	TML	2995
Teiron 2891 Tokai 3001 Tokaido 3002 Venturer 3143 Tokyo 3004 Venus 4308 Tomguang 3006 Vestel 3149 Tongguang 3008 Vexa 3149 Tongtel 3016 Vibrant 3155 Topline 3016 Videologic 3163 Toshiba 3021 Videologic 3165 Tosumi 3023 Videologique 3166 Towada 3028 Videologique 3170 Toyoda 3030 Videosat 3170 Toyoda 3037 Videoton 3174 Transcontinens 3037 Videoton 3174 Transfec 4143 Videch 3179 Transfec 3041 Viewsonic 3186 Transfec 3041 Viewsonic 3186 Triad 3049 Visiola 3197 Tridat 3057 Visorex 3206	Tedelex	2889	Tobo	2999
Tokajdo 3002 Venturer 3143 Tokyo 3004 Venus 4308 Tomgshin 3006 Vestel 3149 Tongtel 3010 Vibrant 3155 Topline 3016 Videocon 3163 Toshiba 3021 Videologic 3165 Tosumi 3023 Videologique 3166 Towada 3028 Videosat 3170 Torakton 3036 Videosat 3171 Toyada 3030 Videosat 3172 Trakton 3036 Videoton 3174 Trans Continens 3037 Videoton 3174 Transfec 3143 Videoton 3174 Transfec 3041 Viewonic 3186 Transfec 3042 Viore 3192 Trident 3054 Vision 3198 Trident 3057 Visorex 3206 Trident 3058 Viston 3197	Teiron	2891	Tokai	3001
Tokyo 3004 Venus 4308 Tomashi 3006 Vestel 3148 Tongguang 3008 Vexa 3149 Tongtel 3010 Vibrant 3154 Top Show 3681 Victor 3155 Tophine 3016 Videologic 3165 Toshiba 3021 Videologique 3166 Towada 3023 Videologique 3166 Towada 3028 Videost 3170 Toyoda 3030 Videosystem 3172 Trakton 3036 Videotechnic 3173 Trans Continents 3037 Videoton 3174 Transfec 4143 Videoton 3186 Transfec 4143 Videoton 3192 Treident 3054 Vision 3198 Triad 3049 Visiola 3197 Trident 3054 Visorex 3206 Triumph 3058 Vistar 3207 </td <td>Tokaido</td> <td>3002</td> <td>Venturer</td> <td>3143</td>	Tokaido	3002	Venturer	3143
Tomshi 3006 Vestel 3148 Tongguang 3008 Vexa 3149 Tongtel 3010 Vibrant 3154 Top Show 3681 Victor 3155 Topline 3016 Videologic 3163 Toshiba 3021 Videologic 3165 Tosumi 3023 Videologic 3166 Towada 3028 Videosat 3170 Trakton 3036 Videotechnic 3173 Trans Continens 3037 Videoton 3174 Transfec 4143 Videoton 3179 Transfec 3041 Viewsonic 3186 Transtec 3042 Viore 3192 Trident 3057 Vision 3198 Trident 3058 Vistar 3207 Tuntex 3069 Vistar 3207 Tuntex 3081 Vison 3191 Uhravox 3093 Viston 3191 <	Токуо	3004	Venus	4308
Tongguang 3008 Vexa 3149 Tongtel 3010 Vibrant 3154 Top Show 3681 Victor 3155 Topline 3016 Videocon 3163 Toshiba 3021 Videologic 3166 Tosumi 3023 Videosat 3170 Toyda 3030 Videosat 3173 Trakton 3036 Videoton 3174 Trans Continens 3037 Videoton 3174 Transfec 4143 Videoton 3174 Transfec 4143 Videoton 3174 Transfec 3041 Viewsonic 3186 Transfec 3042 Viore 3192 Trevi 3682 Visia 3194 Tristar 3057 Vision 3198 Tristar 3058 Vistar 3206 Trumph 3058 Vistar 3207 Tutex 3089 Vivo 4353 <	Tomashi	3006	Vestel	3148
Tongtel 3010 Vibrant 3154 Top Show 3681 Victor 3155 Topline 3016 Videocon 3163 Toshiba 3021 Videologic 3165 Tosumi 3023 Videologique 3166 Towada 3023 Videosytem 3172 Towada 3030 Videosytem 3172 Trakton 3036 Videoton 3173 Trans Continens 3037 Videoton 3174 Transfec 4143 Videtch 3179 Transfec 3041 Viewsonic 3186 Transtec 3042 Viore 3194 Triad 3054 Visiola 3197 Trident 3054 Vision 3198 Tristar 3057 Visorex 3206 Trumph 3058 Vistor 3773 TVS 3081 Visual Innovations 4773 Uher 3089 Vivo 4353	Tongguang	3008	Vexa	3149
Top Show 3681 Victor 3155 Topline 3016 Videocon 3163 Toshiba 3021 Videologic 3165 Tosumi 3023 Videologique 3166 Towada 3023 Videologique 3166 Towada 3030 Videosystem 3172 Trakton 3036 Videotechnic 3173 Trans Continens 3037 Videotechnic 3173 Trans Continents 3039 Videotechnic 3174 Transfec 4143 Videotech 3179 Transtec 3041 Viewsonic 3186 Transtec 3042 Viore 3192 Trevi 3682 Visa 3197 Trident 3054 Visiola 3197 Tristar 3057 Visorex 3206 Trumph 3058 Vistron 3773 TVS 3081 Visual Innovations 4773 Uher 3089 Vivax	Tongtel	3010	Vibrant	3154
Topline 3016 Videocon 3163 Toshiba 3021 Videologic 3165 Tosumi 3023 Videologique 3166 Towada 3028 Videologique 3166 Towada 3028 VideoSystem 3170 Trakton 3036 VideoSystem 3173 Trans Continens 3037 Videoton 3174 TRANS-continents 3039 Videoton 3174 Transfec 4143 Videoton 3179 Transonic 3041 Videoton 3192 Trevi 3682 Visa 3194 Triad 3042 Visa 3194 Triad 3049 Visial 3197 Trident 3054 Visora 3206 Tristar 3057 Visora 3206 Trutex 3069 Vistar 3207 Tutex 3081 Visa 3611 Uher 3089 Vivax 3601	Top Show	3681	Victor	3155
Toshiba 3021 Videologic 3165 Tosumi 3023 Videologique 3166 Towada 3028 Videosst 3170 Toyoda 3030 Videosystem 3172 Trans Continents 3037 Videotechnic 3173 Trans Continents 3039 Vidion 4498 Transfec 4143 Videch 3179 Transonic 3041 Viewsonic 3186 Transtec 3042 Visa 3194 Triad 3054 Vision 3198 Trident 3054 Visorex 3206 Triumph 3058 Vistar 3207 Tuntex 3069 Vistron 3773 TVS 3081 Visorex 3206 Uhra 3093 Vivo 4353 Ultra 3093 Vivo 4353 Uhra 3093 Vivo 4353 Ultra 3093 Vivo 3211 <tr< td=""><td>Topline</td><td>3016</td><td>Videocon</td><td>3163</td></tr<>	Topline	3016	Videocon	3163
Tosumi 3023 Videologique 3166 Towada 3028 Videosat 3170 Towada 3030 Videosytem 3172 Trakton 3036 Videofystem 3173 Trans Continens 3037 Videotechnic 3173 Trans Continens 3037 Videoton 3174 TRANS-continents 3039 Videoton 3174 Trans Continents 3031 Videoton 3174 Transfec 4143 Videoton 3179 Transonic 3041 Viewsonic 3186 Transtec 3042 Viore 3192 Trevi 3682 Visa 3194 Triad 3057 Vison 3198 Trident 3058 Vistar 3207 Tuntex 3069 Vistar 3201 Uher 3082 Vito 4310 Uher 3083 Vivo 4353 Ultra 3093 Vivo 43	Toshiba	3021	Videologic	3165
Iowada 3028 Videosat 3170 Toyoda 3030 VideoSystem 3172 Trakton 3036 Videotechnic 3173 Trans Continens 3037 Videotechnic 3174 TRANS-continents 3039 Videotechnic 3174 Transfec 4143 Videoton 4498 Transfec 3041 Viewsonic 3186 Transtec 3042 Viore 3192 Trevi 3682 Visa 3194 Trident 3057 Visorex 3206 Triumph 3058 Vistar 3207 Tuntex 3069 Visorex 3206 Trittar 3057 Visorex 3207 Tuntex 3069 Vistar 310 Uher 3081 Visoul Innovations 4773 TVTEXT 95 3082 Vivax 3601 Ultra 3093 Vivo 4353 Ultra 3095 Vizo 321	Tosumi	3023	Videologique	3166
loyoda 3030 Videotystem 3172 Trakton 3036 Videotechnic 3173 Trans Continens 3037 Videoton 3174 TRANS-continents 3039 Videoton 3174 TRANS-continents 3039 Videoton 3174 Transfec 4143 Videch 3179 Transfec 3041 Videch 3194 Transtec 3042 Viore 3192 Trevi 3682 Visa 3194 Triad 3049 Visiola 3197 Trident 3057 Visorex 3206 Triumph 3058 Vistar 3207 Tuntex 3069 Vistar 3207 TVEXT 95 3081 Visual Innovations 4773 TVTEXT 95 3082 Vivax 3601 Ultra 3093 Vivo 4353 Ultra 3095 Vizio 3211 UMC 3099 Vortec 3217 </td <td>Towada</td> <td>3028</td> <td>Videosat</td> <td>3170</td>	Towada	3028	Videosat	3170
Trans Continens 3036 Videotonic 3173 Trans Continents 3037 Videoton 3174 TRANS-continents 3039 Vidion 4498 Transfec 4143 Videtch 3179 Transonic 3041 Viewsonic 3186 Transtec 3042 Viore 3192 Trevi 3682 Visa 3194 Triad 3049 Visiola 3197 Trident 3057 Vison 3198 Tristar 3057 Visorex 3206 Triumph 3058 Vistar 3207 Tuntex 3069 Vistar 3207 TVS 3081 Visual Innovations 4773 TVS 3081 Vison 4310 Uher 3089 Vivax 3601 Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 Universal <td>Toyoda</td> <td>3030</td> <td>VideoSystem</td> <td>31/2</td>	Toyoda	3030	VideoSystem	31/2
Trans Continents 3037 Videoton 3174 TRANS-continents 3039 Vidion 4498 Transfec 4143 Videch 3179 Transonic 3041 Viewsonic 3186 Transtec 3042 Viore 3192 Trevi 3682 Visa 3194 Triad 3049 Visiola 3197 Trident 3054 Vision 3198 Tristar 3057 Visorex 3206 Triumph 3058 Vistar 3207 Tuntex 3069 Visual Innovations 4773 TVTEX 95 3082 Vito 4310 Uher 3093 Vivax 3601 Ultra 3093 Vivo 4353 Ultra 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 United 3106 Vue 3225 Universal 3113 Walker 4311 Universal <	Irakton	3036	Videotechnic	31/3
Transfec 4143 Violon 4498 Transfec 4143 Videch 3179 Transonic 3041 Viewsonic 3186 Transtec 3042 Viore 3192 Trevi 3682 Visa 3194 Trident 3054 Vision 3198 Tristar 3057 Visorex 3206 Triumph 3058 Vistar 3207 Tuntex 3069 Visual Innovations 4773 TVTEXT 95 3082 Vito 4310 Uher 3093 Vivax 3601 Ultra 3093 Vivo 4353 Ultra 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 United 3106 Vue 3225 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3116 Wards 3231	Trans Continens	3037	Videoton	31/4
Transfec 4143 Vidtech 3179 Transfec 3041 Viewsonic 3186 Transfec 3042 Viore 3192 Trevi 3682 Visa 3194 Triad 3049 Visiola 3197 Trident 3054 Visorex 3206 Tritumph 3058 Visorex 3207 Tuntex 3069 Vistar 3207 Tuntex 3069 Vistron 3773 TVS 3081 Visual Innovations 4773 TVTEXT 95 3082 Vito 4310 Uhra 3093 Vivo 4353 Ultra 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 United 3106 Vue 3225 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3116 Wards 3231	TRANS-continents	3039	Vidion	4498
Transonic 3041 Viewsonic 3186 Transtec 3042 Viore 3192 Trevi 3682 Visa 3194 Triad 3049 Visiola 3197 Trident 3054 Visorex 3206 Tristar 3057 Visorex 3206 Triumph 3058 Vistar 3207 Tuntex 3069 Vistar 3207 TVTEXT 95 3081 Visual Innovations 4773 TVTEXT 95 3082 Vito 4310 Uhra 3093 Vivo 4353 Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 Universal 3116 Walker 4311 Universum 3115 Walker 4311	Transfec	4143	Vidtech	31/9
Traitie 3042 Viole 3192 Trevi 3682 Visa 3194 Triad 3049 Visiola 3197 Trident 3054 Vision 3198 Tristar 3057 Visorex 3206 Triumph 3058 Vistrar 3207 Tuntex 3069 Vistron 3773 TVS 3081 Visorex 3661 Uher 3089 Vivax 3601 Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3116 Wards 3231	Transonic	3041	Viewsonic	3186
Ifev 3662 Visa 3194 Triad 3049 Visiola 3197 Trident 3054 Vision 3198 Tristar 3057 Visorex 3206 Triumph 3058 Vistar 3207 Tuntex 3069 Vistar 3207 TvTS 3081 Visual Innovations 4773 TVTEXT 95 3082 Vito 4310 Uher 3093 Vivax 3601 Ultra 3093 Vivo 4353 Ultra vox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3115 Waltham 3230	Translec	3042	Viore	3192
Indu 3049 Vision 3197 Trident 3054 Vision 3198 Tristar 3057 Visorex 3206 Triumph 3058 Vistar 3207 Tuntex 3069 Vistron 3773 TVS 3081 Visual Innovations 4773 TVTEXT 95 3082 Vito 4310 Uher 3093 Vivax 3601 Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 United 3106 Vue 3225 United 3106 Vue 3225 Universal 3115 Walker 4311 Universum 3116 Wards 3231	Triad	2040	Visiolo	3194
Interin 3034 Vision 3138 Tristar 3057 Visorex 3206 Triumph 3058 Vistar 3207 Tuntex 3069 Vistron 3773 TVS 3081 Visual Innovations 4773 TVTEXT 95 3082 Vito 4310 Uher 3093 Vivax 3601 Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3116 Wards 3231	Tridopt	2054	Vision	2108
Triumph 3058 Visitar 3207 Tuntex 3069 Vistar 3207 Tuttex 3069 Vistar 3207 TVS 3081 Visual Innovations 4773 TVTEXT 95 3082 Vito 4310 Uher 3089 Vivax 3601 Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3116 Wards 3231	Tristor	2057	Vision	3138
Tuntex 3059 Vistan 3207 Tuntex 3069 Vistron 3773 TVS 3081 Visual Innovations 4773 TVTEXT 95 3082 Vito 4310 Uher 3089 Vivax 3601 Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 Union 3781 VU 4078 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3115 Waltham 3230	Triumph	2059	Vistor	2200
TVS 3081 Visual Innovations 4773 TVTEXT 95 3082 Vito 4310 Uher 3089 Vivax 3601 Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 Union 3781 VU 4078 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3115 Waltham 3230	Tuntex	3069	Vistron	3773
TVTEXT 95 3082 Vito 4310 Uher 3089 Vivax 3601 Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 Uninon 3781 VU 4078 Universal 3113 Walker 4311 Universum 3115 Waltharm 3230 Univox 3116 Wards 3231	TVS	3081	Visual Innovations	4773
Wher 3089 Vivax 3601 Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 United 3106 Vu 4078 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3116 Wards 3231		3082	Vito	4775
Ultra 3093 Vivo 4353 Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 Union 3781 VU 4078 Universal 3113 Walker 4311 Universum 3115 Waltham 3230	Uher	3089	Vivax	3601
Ultravox 3095 Vizio 3211 UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 Union 3781 VU 4078 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3116 Wards 3231	Ultra	3093	Vivo	4353
UMC 3099 Vortec 3217 Unic Line 3100 Voxson 3220 Union 3781 VU 4078 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3115 Waltham 3230	Ultravox	3095	Vizio	3211
Unic Line 3100 Vorsson 3220 Union 3781 VU 4078 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3115 Waltham 3230	UMC	3099	Vortec	3217
Union 3781 VU 4078 United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3115 Waltham 3230 Univox 3116 Wards 3231	Unic Line	3100	Voxson	3220
United 3106 Vue 3225 Universal 3113 Walker 4311 Universum 3115 Waltham 3230 Univox 3116 Wards 3231	Union	3781	VU	4078
Universal 3113 Walker 4311 Universum 3115 Waltham 3230 Univox 3116 Wards 3231	United	3106	Vue	3225
Universum 3115 Waltham 3230 Univox 3116 Wards 3231	Universal	3113	Walker	4311
Univox 3116 Wards 3231	Universum	3115	Waltham	3230
	Univox	3116	Wards	3231



Urania	4536	Warumaia	3232
V7 Videoseven	3130	Watson	3233
VANGUARD	3450	Watt Radio	3234
Vegavox	4145	Waycon	3237
Wega	3238	Ytawai	3344
Wega Color	4146	Yuhang	3345
Wegavox	3239	YU-MA-TU	3603
Weipai	3241	Yüsmart	4777
Welltech	3244	Zanussi	3349
Weltblick	3245	Zenith	3356
Weltstar	3247	Zepto	4081
Westinghouse	3249	ZhuHai	3364
Weston	3251	Ziggo	4007
Wharfedale	3255	Zonda	3303
White Westinghouse	3258	20108	5305
Wilson	3260		
Winco	3263		
Windsor	3265		
Windstar	3266		
Windy Sam	3267		
Winston	4537		
Wintel	3771		
Winternitz	1538		
World-of-Vision	3787		
Worter	2202		
Waxee	2200		
Vopius	3288		
Xiahua	3297		
Xianghai	3299		
Xianguang	3300		
Xiangyang	3301		
Xiangyu	3302		
Xinu Xiaasha'	3303		
Xinagnai	3304		
Xingtu	3305		
Xinghai	3306		
Xingmenban	4147		
Xingyu	3926		
Xinrisong	3308		
xinsida	3309		
Xiron	4079		
XLogic	3310		
Xomax	3905		
Xoro	3315		
Xrypton	3317		
Xuelian	3320		
такито	2226		
r di li di li di Vamishi	2220 2228		
Vingge	3334		
Yokan	3335		
Yoko	3336		
Yonggu	3339		
Yorx	3340		
Youlanasi	3342		
Yousida	3343		
		1	



Content of the hybridset.txt-file for the IPTV patch script / Inhalt der hybridset.txt – Datei:

(Achtung Zeilenumbrüche beachten (Linux) / Attention: CR/LF are here automatically set by Windows word processor)

[network] #network.prefdns=208.67.222.222 network.prefdns=9.9.9.9 #network.ntp=time.abox42.com #network.ntp=192.53.103.108 network.ntp=time.windows.com # hier sollten lokale Daten rein: DNS kann z.B. weltweit der Google sein 8.8.8.8 oder neutral 9.9.9.9, NTP Server sollte ein lokaler genommen werden. # Kommentarzeilen die vom linux ignoriert werden fangen mit der raute an [kev] #key.portal=http://localhost/nanoapps/branded/brandeddashboard/index.html key.portal=http://localhost/developer/index.html key.info=http:// # was das macht weiss ich nicht [apps] # the app which will be activated when the box startup. FirstRunApp=portalstack # the app which will be run # for example: if we define RunPortal=portalstack, it means there is a portalstack directory under rootfs/root, a portalstack.sh file under the portalstack directory, support to start/stop/restart the subsystem. And the app name of portalstack is /dbus/portalstack, the dbus name of portalstack is dbus.Portalstack, the path name of portalstack is /dbus/Portalstack, the interface name of portalstack is dbus.App RunPortal=portalstack # im Folgenden sollte z.B. die Timezone gesetzt werden - was das im einzelenen alles macht weiss ich auch noch nicht [nano] nano enable=1 serviceprovider=abox42 hddsys_enabled=0 #nano hdd=/mnt/HDDSYS hddsys encrypted=0 hddsys install app=0 #timezone=Australia/Canberra timezone=Europe/Berlin language=en #language=de currency=eur developermode=0 bundle list=m20-webkit bundle=default-m20-webkit welcomevideo url=/nanolamp/var/www/htdocs/nanoapps/abox42/apps/userhomedashboard/img/welcome.mp4 app auto update=0 app hourly updates=0 # url which is used to check if box is online #online check url=http://check.abox42.com online_check_url=https://web.de # timeout for check_url request online check timeout=5 # ttl for entry in apc cache - check interval is calculated from this value (50%) online check apc ttl=30 # configure timeout for ajax call for installing/updating nano apps (default 90 seconds) app_install_or_update_ajax_timeout=90 # configure url of red button loop video loopvideo.stream=http://localhost/api/device/img/loop.mov # enable (1) or disable (0) auto install app auto install on boot=1 # enable (1) or disable (0) firmware version check (and update) on boot fw version check=0 # enable (1) or disable (0) SSI version check (and update) on boot ssi version check=0 # change language in expert - enabled(1) or disabled(0) language chooser is enabled=1 # get statistical informations via diagstat module - 0=disabled 1=enabled statistics enabled=0 # enable facebook registration - 0=disabled 1=enabled



```
#facebook enabled=1
#facebook blue button enabled=1
facebook enabled=0
facebook blue button enabled=0
## developer app:
## 1 == disable usage of external USB Stick for local apps (default is 0 == USB Stick is
required)
developer without usbstick=1
[saas]
## used for nano apps ---Software as a service???
#saas.lcm.url=https://m15.lifecycleabox42app.com/provisioning/
#saas.lcm.secret=abox42-m15prod-89be579233bba59c5324afed7d677331
#saas.signature.url=https://m15.signatureabox42app.com/api2/
#saas.signature.secret=abox42-m15prod-7a4aa6f2d119b38e10db5b8acb6fdc069
# saas.cm.url=https://m15.customersabox42app.com/api/
# saas.cm.secret=m15prod a5850a50ff73c21c305247b59c326579
# saas.tvs.url=https://m15.tvservicesabox42app.com/api/
# saas.tvs.secret=m15prod_caf3fb45cb3a487a611e966d6d90c28b
# saas.reporting.url=https://m15.collectorabox42app.com/inbox
[Device]
# "none" is also valid value here
productname=Omniscreen OMM15-T2
marketing version=1.10
retailer=BLANKOM
affiliate=BLANKOM
brand_key=COMB0017
brand description=Combitel Branded
[svstem]
screensaver.timeout=300
screensaver.enable=0
screensaver.style=1
## standby.timeout is only used for some debug version
standby.timeout=0
## this will enable log printouts to syslog, normally locate in /var/log/messages
#enablelogs=1
enablelogs=0
## this will enable HDCP authentication
hdcp.enable=1
system.defaultTimezone=Europe/Berlin
#system.defaultTimezone=Australia/Canberra
[user-agent]
## special useragent for certain hosts, they will be grouped by ^, different ua seperated by ^
will be used open url with hosts seperated by ^, for example, url with host ce.radiotime.com in
second group will use the useragent in second group of specialuseragentvalue
## character & will be replaced by ; since content after ; will be discarded
## browser.useragent will be used as default useragent, priority of special useragent is higher
than default useragent
#browser.specialuseragenthosts=hbbtv.ardmediathek.de,itv.ard.de,*.hbbtv-
connect.de, *.rovicorp.com, hbbtv.swisstxt.ch, tv.iview.abc.net.au, tv.tenplay.com.au, hbbtv.switchm
edia.asia, hbbtv.freeviewplus.net.au^ce.radiotime.com, tv.tunein.com, hbbtv.prosieben.de, hbbtv.sat
1.de, hbbtv.kabeleins.de^*.maxdome.de, 82.79.128.163^*.weepee.tv,*.my-stream.eu
#browser.specialuseragentvalue=Mozilla/5.0 (Embedded& Linux) AppleWebKit/534.34 (KHTML, like
Gecko& HbbTV/1.1.1 (&tv2next&ABox42-M15&1.0.0&1.0&)& en) Safari/534.34^Opera/9.80 (Linux& U&
HbbTV/1.1.1 (&tv2n&videoweb&1.0.0&1.0&)& en) Presto/2.8.115 Version/11.10^Mozilla/5.0
(Embedded& Linux) AppleWebKit/534.34 (KHTML, like Gecko& (&tv2next&ABOX42 m-series&1.0.0&1.0&)&
en) Safari/534.34^Weebox (M12-1.0& 1.10 2030.2006.1947.0)/Browser Webkit 535.22
#browser.defaultuseragent=Mozilla/5.0 (Embedded& Linux) AppleWebKit/534.34 (KHTML, like Gecko&
(&tv2next&ABox42-M15&1.0.0&1.0&) & en) Safari/534.34
#player.specialuseragenthosts=*.weepee.tv,*.my-stream.eu
#player.specialuseragentvalue=Weebox (M12-1.0& 1.10 2030.2006.1947.0)/Player 1.0
#player.defaultuseragent=HbbTV/1.1.1 (&tv2n&ABox42-M15&0.0.0&1.0&) TV2PLAYER/0.0.0.1
[browser]
## 0: default value, disable going to brandedapp.url on startup.
## 1: enable going to brandedapp.url on startup.
startpage enable=0
## only work when startpage enable is 1.
#brandedapp.url=
## 0: default value, this parameter does not take effect and will be ignored.
## 1: go to url in /opt/data/settings/nano-htdocs/developer/STARTURL.TXT or brandedapp.url if
valid on startup.
```



2: go to index.html or index.php or deploy.php in /opt/data/settings/nano-htdocs/developer if valid on startup. check starturl=0 ## only valid when branded app url works. ## 0: default value, this parameter does not take effect and will be ignored. ## 1: will always go to branded app url on HOME key pressed. browser.alwaysopenbrandedappurl=0 ## only valid when branded app url works. ## 0: default value, will check network is valid or not before go to branded app url on startup, if not valid then go to dashboard. ## 1: will not check network is valid or not, just go to branded app url on startup, if not valid then go to network error page. browser.disablenetworkvalidcheck=0 browser.pageloadtimeout=30000 browser.errorpageurl=file:///webkit/webui/networkerror/index.html browser.tabcontrolbarurl=file:///webkit/webui/tabcontrolbar/index.html browser.stbprotocalsupport=1 browser.enableremotedebug=1 ## 0: default value, all keys will be handled by default behavior in browser first, if browser does not handle it then webpage will get keyinput. ## 1: all keys will be send to webpage first, if webpage handle it, default behavior in browser will be prevented. ## 2: only back/reload/portal/mute/vol+/- will be send to webpage first, if webpage handle it, default behavior in browser will be prevented. ## 3: only mute/vol+/-/power/back/teletext/reload will be send to webpage first, if webpage handle it, default behavior in browser will be prevented. browser.sentkevtopagefirst=1 ## only valid when browser.sentkeytopagefirst is not 0. ## default behavior will be prevented in these hosts so disable sentkeytopagefirst feature to make default behavoir like HOME key work. browser.keytopagefirstexhosts=*.maxdome.de ## back key will always be send to page in these hosts since it is required in certain apps like kabelkiosk. browser.alwayssendbacktopagehosts=*ce.nowtilus.tv browser.spatialnavdisabledhosts=*.youtube.com ## 0: disabled, browser validate certificates ## 1: default value, enabled, browser don't validate certificates browser.insecure=0 ## All HTTPS Certificates for all Hosts/Domains listed here (comma separated list, * wildcard allowed) will not be validated. browser.insecurehosts=localhost,json.bild.de ## used to set in which host webpage resource with following mimetypes will parsed as "text/html". ## {"application/ce-html+xml", "application/vnd.hbbtv.xhtml+xml"} browser.parsecentmlashtmlhosts=json.bild.de,hbbtv.wetter.com ## used to set in which host application manager plugin will be enabled. browser.enableappmgrpluginhosts=www.tagesschau.de ## used to set in which host "keypress" event will be converted to "keydown" event to handle key input correctly. browser.converkeypresstokeydown=*.maxdome.de,*.kinderkino.de,*.mytvscout.de ## used to set in which application url the application will be blocked. browser.blockedapplicationurls=http://hbbtv.free ## 1: use stream url from zattoo as channel bound in video/broadcast plugin ## 0: will not request stream url from zattoo browser.bindbroadcastchannelviazattoo=0 ## used to set which exclusive hosts should be set highlighted. intelliHighlightedExHosts=localhost, *.tagesschau.de ## used to set in which hosts script inject is allowed. scriptInjectedHosts=localhost,127.0.0.1 [vxorq] #proxy.server=192.168.2.100 #proxy.port=8888 #proxy.username=usr #proxy.password=pwd #proxy.excludedhosts=localhost,127.0.0.1 [vm] #add verimatrix server IP and port here #vm.server=74.62.179.31 #vm.port=12686 #server and port for vmx viewright web/ott #vmweb.server=74.62.179.10 #vmweb.port=80



Beispiel der Channels- und Channel-groups-Dateien:

channelgroups-1.0.0.json (see at the end, 3 embedded files)

r

```
"name": "EMPTY",
"slug": "empty",
        "channels": [],
        "group": "empty'
    1
           "name": "GER| Allgemein",
        "slug": "Deutsche, allgemeine Kanaele",
         "channels": [0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,50],
        "group": "galg"
    },
           "name": "GER| Doku",
        "slug": "Deutsche Doku Kanäle",
        "channels": [29,30],
        "group": "gdok"
    },
           ł
           "name": "GER| Entertainment",
        "slug": "Deutsche Unterhaltungs Kanaele",
"channels": [31,32,33,34,35,36,37,38,39,40,41,42],
        "group": "gent"
    ۱.
           "name": "GER| Kinder",
        "slug": "Deutsche Kinder Kanäle",
        "channels": [43,44,45],
"group": "gkid"
    },
               {
        "name": "GER| News",
"slug": "Deutsche Nachrichten Kanäle",
        "channels": [46,47,48,49],
        "group": "gnew'
    ł.
          "name": "GER| Radio",
        "slug": "Deutsche Radio Kanäle",
        "channels"
,89,90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112],
        "group": "grad"
    },
    ſ
        "name": "WW| Docu",
"slug": "Foreign Documentaries",
        "channels": [113,114,],
        "group": "wwdoc'
    },
        "name": "WW| Entertainment",
"slug": "Foreign Entertainment Channels",
"channels": [115,116,117],
        "group": "wwent"
    1.
          "name": "WW| General",
        "slug": "Foreign General Channels"
        "channels": [127,128,129,130,131,132,133],
"group": "wwgen"
    ł.
          "name": "WW| News",
        "slug": "Foreign News Channels"
        "channels": [118,119,120,121,122,123,124,125,126],
         "group": "wwnew"
    ١.
1
```

Look a like on the box group selection menu / Das sieht dann auf dem Box-Menü so aus: Menu-Change-Group (on Remote control: OK button than right arrow)





CHANNELS / Die Kanalisten:

January 06, 202	1 12:48 a.m.					
	1					
	A Sector		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	205 45	1	
	Channel	001				Change Group
	GER Allgemein	002	ZDF HD		1	
		003	ZDFinfo HD			
		004	zdf_neo HD			
		005	arte HD			
		006	3sat HD			
	A U CASE	007	NITRO		- 11	
		008	ARDalpha HD		- and	-
ARD	Buffer	009	ONE HD	-		
				III		

Radio's:





Background: The transparent current running channel



Example for a small > 100 Channel Setup from ASTRA 19,2°E and 13°E Hotbird with Radios and FreeToAir (FTA) channels) / Beispiel für ein kleines > 100 Kanäle Satelliten-Kanallistensetup (ASTRA/Hotbird) mit freien Kanälen und Radios:

channels-1.0.0.json

```
ł
                "name": "Das Erste HD",
            "slug": "ftv",
"streamurl": "udp://230.1.1.1:10001",
            "language": ["de"],
            "audio": "stereo",
            "text": false,
           "subtitle": false,
"group": "galg",
"loop": false
      ۱.
               ł
               "name": "ZDF HD",
           "name": "ZDF HD",
"slug": "ftv",
"streamurl": "udp://230.1.1.2:10002",
"language": ["de"],
"audio": "stereo",
            "text": false,
           "subtitle": false,
"group": "galg",
"loop": false
      ۱.
                                  1
              "name": "ZDFinfo HD",
           "slug": "ftv",
"streamurl": "udp://230.1.1.3:10003",
            "language": ["de"],
"audio": "stereo",
"text": false,
            "subtitle": false,
            "group": "galg",
            "loop": false
      },
            t
"name": "zdf_neo HD",
"slug": "ftv",_
"streamurl": "udp://230.1.1.4:10004",
"language": ["de"],
            "audio": "stereo",
            "text" false
            "subtitle": false,
"group": "galg",
"loop": false
      ۱.
               ł
           "name": "arte HD",
"slug": "ftv",
"streamurl": "udp://230.1.1.5:10005",
"language": ["de"],
"audio": "stereo",
            "text": false,
            "subtitle": false,
"group": "galg",
            "loop": false
      ۱.
                                                          ł
             "name": "3sat HD",
           "slug": "ftv",
"streamurl": "udp://230.1.1.:10006",
            "language": ["de"],
"audio": "stereo",
            "text": false.
            "subtitle": false,
"group": "galg",
            "loop": false
      },
                                                           ł
              "name": "NITRO",
            "slug": "ftv",
"streamurl": "udp://230.1.1.7:10007",
            "language": ["de"],
            "audio": "stereo",
            "text": false,
           "subtitle": false,
"group": "galg",
"loop": false
     ł.
   {...
            und noch weitere knapp 100 Abschnitte
                                                                                                           ...
     },
1
```





-> Click it -> please use notepad++ or any Linux compatible editor



This extracting of the embedded files do not work with PDF files!

Complete hybridset.txt content (the hybridset.txt can be exchanged in the box by simply using the script to IPTV again to the box... or using the curl...) curl -s -T ./hybridset.txt <u>ftp://\${ABOX42_IP}</u>

```
The script itself has to be initiated as executable with ./abox 42 iptv setup.sh
#!/bin/bash
ABOX42 IP=$1
echo "Uploading files..."
curl -s -T ./iptv_package.tar.gz "ftp://${ABOX42_IP}"
curl -s -T ./hybridset.txt "ftp://${ABOX42 IP}"
echo "Updating ABOX42 $ABOX42 IP..."
/usr/bin/expect <<EOD
log user 0
spawn ssh -oStrictHostKeyChecking=no -oUserKnownHostsFile=/dev/null
admin@$ABOX42 IP
expect "password"
send "O9kAdBQcTH7q3kNh\r"
expect "# "
send "cat /opt/data/settings/nano-htdocs/developer/hybridset.txt > /root/hybridset.txt\r"
expect "# "
send "rm /opt/data/settings/nano-htdocs/developer/hybridset.txt\r"
expect "# "
send "cd /opt/data/settings/nano-htdocs/developer/ && tar xzf ./iptv package.tar.gz\r"
expect "# "
send "exit\r"
EOD
curl -s -T ./channels-1.0.0.json "ftp://${ABOX42 IP}/res/json/"
curl -s -T ./channelgroups-1.0.0.json "ftp://${ABOX42 IP}/res/json/"
echo "Refreshing $ABOX42 IP ... "
curl -d "url=http://localhost/developer/index.html" -X POST "http://$ABOX42 IP/api/dev-
client/index.php/open"
echo "done"
```

The settings: The box can be accessed by SSH and FTP (FTP only to the basic IPTV



/res/folders):

SSH connectivity and commands.

User: admin

Password: O9kAdBQcTH7q3kNh

Changed settings are stored in a Flash part ubi1_0 linked to /opt/data/settings

# 1s -1a drwxr-xr-x 9 root root 2440 Feb 12 12:54 . -rwr-r-r 1 root root 296 Jul 27 2015 -rwr-r-r 1 root root 1 Feb 12 12:49 Audio.HdmiMode -rwr-r-r 1 root root 1 Feb 12 12:49 Audio.SPDIFMode -rwr-r-r 1 root root 1 Feb 12 12:53 Network.DHCP -rwr-r-r 1 root root 13 Feb 12 12:53 Network.DNS1 -rwr-r-r 1 root root 28 Jan 1 1970 Network.DNS2 -rwr-r-r 1 root root 1 Feb 12 12:53 Network.Encryptio -rwr-r-r 1 root root 11 Feb 12 12:53 Network.Gateway -rwr-r-r 1 root root 13 Feb 12 12:53 Network.NetWark.Gateway -rwr-r-r 1 root root 13 Feb 12 12:53 Network.NetWark.Gateway -rwr-r-r 1 root root 13 Feb 12 12:53 Network.NetWark.Gateway -rwr-r-r 1 root root 13 Feb 12 12:53 Network.NetWark.Gateway -rwr-r-r 1 root root 13 Feb 12 12:53 Network.NetWark.Gateway -rwr-r-r 1 root root 13 Feb 12 12:53 Network.Net	n atus pe
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drwxr-xr-x4root296Jul 272015-rw-r-r1rootroot1Feb 1212:49Audio.HdmiMode-rw-r-r1rootroot1Feb 1212:49Audio.SPDIFMode-rw-r-r1rootroot1Feb 1212:54Network.DHCP-rw-r-r1rootroot13Feb 1212:53Network.DNS1-rw-r-r1rootroot7Feb 1212:53Network.Device-rw-r-r1rootroot28Jan 11970Network.Encryptio-rw-r-r1rootroot11Feb 1212:53Network.Encryptio-rw-r-r1rootroot11Feb 1212:53Network.NetWark-rw-r-r1rootroot13Feb 1212:53Network.NetWark-rw-r-r1rootroot13Feb 1212:53Network.NetMask-rw-r-r1rootroot13Feb 1212:53Network.NetworkSt-rw-r-r1rootroot13Feb 1214:47Time.CountryCity-rw-r-r1rootroot5Feb 1212:49Video.AspectRatio-rw-r-r1rootroot1Feb 1212:49Video.Resolution-rw-r-r1rootroot1Feb 1212:49Video.Resolution-rw-r-r1root <t< td=""><td>n atus pe</td></t<>	n atus pe
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-rw-rr 1 root root 3 Mar 19 2015 ssi.Marketversion	
-rw-rr 1 root root 16 Mar 19 2015 ssi.version	
drwxr-xr-x 2 root root 304 Feb 12 12;29 tnodvb	
drwxr-xr-x 2 root root	
-rw-rr 1 root root 1 Feb 12 12:28 update.available	
drwxr-xr-x 3 root root 736 Jan 1 1970 xml	
# df -h	
Filesystem Size Used Available Use% Mounted on	
rootfs 114.1M 114.1M 0 100% /	
ubi0_0 114.1M 114.1M 0 100% /	
devtmpfs 64.0K 0 64.0K 0% /dev	
tmpfs 64.0K 0 64.0K 0% /dev	
tmpfs 64.0K 0 64.0K 0% /dev tmpfs 131.7M 2.5M 129.1M 2% /tmp	
tmpfs 64.0K 0 64.0K 0% /dev tmpfs 131.7M 2.5M 129.1M 2% /tmp tmpfs 64.0K 0 64.0K 0% /mnt	
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Access to the box by SSH is possible even w/o the patched IPTV part. Use Putty or Kitty as client: SSH connectivity and commands. User: admin Password: O9kAdBQcTH7q3kNh Usefull ssh commands with PHP can help you manage the box: Factory reset: php -r 'tncommon startfactoryreset(0, "AreYouSure");' Disable screensaver (ON by default): php -r 'tncommon enablescreensaver(0);' • Print available php tncommon api functions: php –r 'print r(get extension funcs("tncommon"));' results in: Array ([0] => tncommon getdevicemodel [1] => tncommon gethwversion [2] => tncommon getswversion [3] => tncommon getserialnumber [4] => tncommon cleancookie [5] => tncommon capturescreen [6] => tncommon reboot [7] => tncommon debug [8] => tncommon setfsiupdateimageinfo [9] => tncommon startfsiupdate [10] => tncommon getfsiupdaterserverurl [11] => tncommon getupdateinfo [12] => tncommon getupdatereleasenoteurl [13] => tncommon setssiupdateimageinfo [14] => tncommon startssiupdate [15] => tncommon getssiupdaterserverurl [16] => tncommon getssiversion [17] => tncommon getssiupdatestatus [18] => tncommon isssivalid [19] => tncommon getnetworkinterfacecount [20] => tncommon getnetworkinterfacetype [21] => tncommon getnetworkinterfaceid [22] => tncommon getnetworkinterfacename [23] => tncommon getnetworkinterfaceconnectedstatus [24] => tncommon getnetworkinterfaceactive [25] => tncommon activatenetworkinterface [26] => tncommon startnetworkinterfaceactivate [27] => tncommon stopnetworkinterfaceactivate [28] => tncommon getnetworkinterfaceactivatestatus [29] => tncommon getnetworkinterfacedhcpstatus [30] => tncommon_getnetworkinterfaceip [31] => tncommon getnetworkinterfacenetmask [32] => tncommon getnetworkinterfacegateway [33] => tncommon getnetworkinterfacemacaddress



[34] => tncommon getnetworkinterfacedns1 [35] => tncommon getnetworkinterfacedns2 [36] => tncommon getnetworkinterfacessid [37] => tncommon getnetworkinterfacepassword [38] => tncommon getnetworkinterfaceencryptiontype [39] => tncommon setnetworkinterfacedhcpstatus [40] => tncommon setnetworkinterfaceip [41] => tncommon setnetworkinterfacenetmask [42] => tncommon setnetworkinterfacegateway [43] => tncommon setnetworkinterfacemacaddress [44] => tncommon setnetworkinterfacedns1 [45] => tncommon_setnetworkinterfacedns2 [46] => tncommon setnetworkinterfacessid [47] => tncommon setnetworkinterfacepassword [48] => tncommon startapplynetworkconfiguration [49] => tncommon stopapplynetworkconfiguration [50] => tncommon getnetworkconfigurationapplystatus [51] => tncommon startnetworkwirelessscan [52] => tncommon stopnetworkwirelessscan [53] => tncommon getnetworkwirelessscanstatus [54] => tncommon getnetworkwirelessscancount [55] => tncommon getnetworkwirelessscanitemssid [56] => tncommon getnetworkwirelessscanitemsignalstrength [57] => tncommon_getnetworkwirelessscanitemencryptiontype [58] => tncommon getnetworkwirelessscanitemwpsmodes [59] => tncommon startnetworkwpssearch [60] => tncommon stopnetworkwpssearch [61] => tncommon getnetworkwpssearchstatus [62] => tncommon getnetworkwpssearchconnectednetworkname [63] => tncommon getnetworkwpssearchnetworkpsk [64] => tncommon startfactoryreset [65] => tncommon getfactoryresetstatus [66] => tncommon disableonscreenkeyboard [67] => tncommon enableonscreenkeyboard [68] => tncommon setscreensavertimeout [69] => tncommon getscreensaverstatus [70] => tncommon enablescreensaver [71] => tncommon getscreensavertimeout [72] => tncommon cleanbrowserprivatedata [73] => tncommon capturescreenex [74] => tncommon getintellireferkey [75] => tncommon setintellireferkey [76] => tncommon getintellihosts [77] => tncommon setintellihosts [78] => tncommon getintellibackwardurl [79] => tncommon setintellibackwardurl [80] => tncommon getdevicelanguage

[81] => tncommon setdevicelanguage [82] => tncommon set http accept language [83] => tncommon getbooterversion [84] => tncommon getnetworkwirelessitemdbflag [85] => tncommon getnetworkwirelessitempw [86] => tncommon delnetworkwirelessitemdbflag [87] => tncommon iscurrentwifihotspot [88] => tncommon get native tabs count [89] => tncommon create native tab [90] => tncommon delete native tab [91] => tncommon show native tab by id [92] => tncommon hide native tab by id [93] => tncommon get active native tab [94] => tncommon open url native tab by id [95] => tncommon stop native tab by id [96] => tncommon reload native tab by id [97] => tncommon get url native tab by id [98] => tncommon set alias native tab by id [99] => tncommon get alias native tab by id [100] => tncommon get id native tab by alias [101] => tncommon getbrandkey [102] => tncommon hidemouse [103] => tncommon showmouse [104] => tncommon getmousestate [105] => tncommon getupdatepackagelist [106] => tncommon startupdate [107] => tncommon stopupdate [108] => tncommon getdownloadstatusfile [109] => tncommon enterstandby [110] => tncommon entersuspend [111] => tncommon leavesuspend [112] => tncommon getsuspendmodestate [113] => tncommon setstandbytimeout [114] => tncommon getstandbytimeout [115] => tncommon getinjectscript [116] => tncommon setinjectscript [117] => tncommon setfocusbyframeid [118] => tncommon isscreentransparent [119] => tncommon settimezone [120] => tncommon settimezone1 [121] => tncommon gettimezone [122] => tncommon gettimezoneoffset [123] => tncommon getsupportedtimezone [124] => tncommon_getdeviceinfobytype [125] => tncommon getntpserver [126] => tncommon setntpserver [127] => tncommon setcurrentchannelbytriplet

[128] => swig_tnCommon_alter_newobject
[129] => swig_tnCommon_get_newobject
)
#

Addendum for Linux servers where you can 'expect' problems with <u>ssh login</u> might not work because the shell script has to safe the SSH key from the box by itself: filename: abox_42_iptv_setup.sh

```
#!/bin/bash
ABOX42 IP=$1
echo "Uploading files..."
curl -s -T ./iptv package.tar.gz "ftp://${ABOX42 IP}"
curl -s -T ./hybridset.txt "ftp://${ABOX42 IP}"
echo "Updating ABOX42 $ABOX42 IP..."
/usr/bin/expect -d <<EOD
log user 0
set timeout -1
# set ssh options "-oKexAlgorithms=+diffie-hellman-group1-shal"
spawn ssh -oKexAlgorithms=+diffie-hellman-group1-sha1 admin@$ABOX42 IP
sleep 2
# sleep is just for slowing down the process
expect "*?"
send "y\r"
sleep 1
expect "fingerprint"
send "yes\r"
sleep 1
expect "password"
sleep 1
send "09kAdBQcTH7q3kNh\r"
expect "# "
sleep 1
send "cat /opt/data/settings/nano-htdocs/developer/hybridset.txt >
/root/hybridset.txt\r"
expect "# "
send "rm /opt/data/settings/nano-htdocs/developer/hybridset.txt\r"
sleep 1
expect "# "
send "cd /opt/data/settings/nano-htdocs/developer/ && tar xzf
./iptv package.tar.gz\r"
expect "# "
send "exit\r"
EOD
sleep 1
curl -s -T ./channels-1.0.0.json "ftp://${ABOX42 IP}/res/json/"
sleep 1
curl -s -T ./channelgroups-1.0.0.json "ftp://${ABOX42 IP}/res/json/"
echo "Refreshing $ABOX42 IP..."
sleep 1
curl -d "url=http://localhost/developer/index.html" -X POST
"http://$ABOX42 IP/api/dev-client/index.php/open"
echo "done"
_____
                                   _____
```



Example: Rasbian PI OS (Debian Buster) needs this modification to accept the fingerprint and stores it in the user sub-folder:

/home/pi/.ssh/
With a
config file
contains

Host 192.168.1.0/24

KexAlgorithms + diffie-hellman-group1-sha1

and

a file named

known_hosts

contains the already used and stored keys whoch is increasing patching box by box. If you need to patch the same box a second time, you should erase its already here stored key from the list or simply erase all text content from it.



You can use STRG a and del than save the empty file ...

That assures that you can ssh again to the box and/or use the

Patch-script again to do the modification of a box from after firmware loading to the simple IPTV portal with your linux patch PC/machine:

./abox_42_iptv_setup.sh <IP-address of the box>

