Stream Protocol Converter

- Input stream formats:
  - UDP/RTP Multicasts
  - Unicasts: RTSP, SRT, RTMP, HTTP, HLS, FLV
  - UDP-Multicast, UDP-Unicast, TCP (private), RTP
  - SPTS and MPTS
- 6 Gigabit Network interfaces: 10/100/1000M RJ45
- Real-time monitoring of input streams: PSI/SI and PCR
- Three-level error detection based on TR101 290
- PSI/SI live information checking / display
  - IP-Jitter and PCR correction
- Input analysis such as encoding format, aspect ratio, resolution, etc.
  - 50 (100) Re-multiplexing-Streams,
  - max. 100 Mbit/s per channel
- Remote control by Web-Interface
- DVB and IPTV conform
- Dual redundant power supplies

Up to 50 or 100 streaming channels:
Conversion between Unicast and Multicast
UDP/RTP <-> SRT
Null-Packet adding VBR-> CBR possible
Output HLS-http will be installed optional by license

**5th Generation BLANKOM®
IPTV Headend Technology**

Broadcast grade, high performance protocol converter for up to 50 streams. Available as 100-Stream Version: BIG-1100X.
Use case: UDP -> SRT -> WAN (CDN) -> SRT -> UDP

The BIG-1050X is based on server architecture, can convert the usual streaming TS protocols efficiently for LAN/WAN Video stream Transmissions.

The TS protocol can be converted between UDP multicast or unicast URL's to or from SRT/RTP/HTTP/HTTP-HLS/RTSP/RTM to UDP while keeping the image quality.

By looping an URL to UDP -> UDP-> SRT such conversion is also possible.

A comfortable WEB- GUI makes it easy to configure and handle.

TV Headend with multicasts

DVB-IP MPTS/SPTS and low bitrate SD/HD Streams

Internet Stream import RTMP/HLS/RTSP/SRT

Up to 50 (100) Streams IN

Up to 50 (100) UDP/SRT out

Modulators ...

Digital Signage

BIG-1050X or BIG1100X

Master-Headend to Slaves Multicast to Unicast to Multicast by 2x BIG-1050X

UHD-encoder

UHD-decoder

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TECHNICAL SPECIFICATIONS

INPUT

- Interface: 6x 1000M/100M/10Mb/s RJ45, Full Duplex
- MPTS/SPTS TS/IP Input Bit Rate: max. 800Mbps per RJ45
- Data Protocol: TCP, UDP, ICMP, IGMP V1, V2, V3,
- IP Protocols Unicast, Multicast: UDP, RTP, SRT, HTTP, RTSP, RTMP(s), FLV, HLS (HTTP Live Streaming)

MONITORING / MODIFIYING

- Input: SPTS / MPTS
- Null package process: Null packet pass through and insert (CBR)
- Monitoring: Live Services, PSI/SI, PCR
- Maximum bitrate: 100Mbps each
- Maximum TS count: 50 (100) input TS Streams + 50 (100) output TS Streams

OUTPUT

- Interface: 6x 1000/100/10Mbs RJ45, Full Duplex
- TS/IP Input Bit Rate: 800Mbps per RJ45
- Data Protocol: UDP, SRT, TCP
- IP addressing: Unicast, Multicast
- Type: IP Streaming, DVB conform remuxed streams

CONTROL & MONITORING

- Interface: 6x RJ45, 1000/100/10Mbit/s
- Protocol: HTTP Web GUI, Captcha

GENERAL

- Dimensions: BIG-1100X: 430 mm x 335 mm x 44 mm, 19" 1RU ()BIG-1050X 430x260x44mm =
- Approx weight: 5 (8,7) kg
- Power: 2x AC 110V~240V, 6,4A, 47~63 Hz
- Power consumption: max. 500W (750W BIG-1100X)
- Temperature: 5~45 ⁰C (operation), -10~65 ⁰C (storage)

Ordering Guide: BIG-1050X (50 Streams), BIG-1100X (100 Streams), optional License for UDP->HLS

BLANKOM — BIG-1050X

⊕ English ∨   👤 root ∨

Home

Hardware Info

Gauge	Label
25%	CPU Usage
44°C	CPU Temp
10%	Memory Usage
4%	Disk Usage

System Info

Device Name	BIG-1050X
Serial Number	56F74C48-87F6-36AC-A2A2-91A01597FCF2
Version Number	2.1.1.6-b3
Run Time	4 Days 0 Hour 27 Minutes 57 Second
System Time	2024/05/24 11:34:11
License	Empower Normal

Netcard Status

Total Rx Speed 168.83Mb/s   Total Tx Speed 30.31Mb/s

	Status	Name	Bootproto	IP	Linked Speed	Rx Speed	Tx Speed	Rx Error	Tx Error	Gateway	MAC
1	Linked	eth1	none	192.168.0.156	100Mb/s	34.61 mb/s	23.64 mb/s	0	0	192.168.0.1	28:b1:33:01:d5:b2
2	Linked	eth2	none	192.168.10.57	1000Mb/s	5.13 mb/s	6.53 mb/s	0	0	192.168.10.1	28:b1:33:01:d5:b3
3	Linked	eth3	none	192.168.20.56	1000Mb/s	34.31 mb/s	0.00 mb/s	0	0	192.168.20.1	28:b1:33:01:d5:b4
4	Linked	eth4	none	192.168.30.56	1000Mb/s	44.98 mb/s	0.14 mb/s	0	0	192.168.30.1	28:b1:33:01:d5:b5
5	Linked	eth5	none	192.168.40.56	1000Mb/s	49.81 mb/s	0.00 mb/s	0	0	192.168.40.1	28:b1:33:01:d5:b6
6	Not Linked	eth6	none	192.168.50.56	0Mb/s	0.00 mb/s	0.00 mb/s	0	0	192.168.50.1	28:b1:33:01:d5:b7

Sidebar menu: Home, TS/IP, Protocol Convert (UDP/SRT, URL to UDP), Server, Network, System