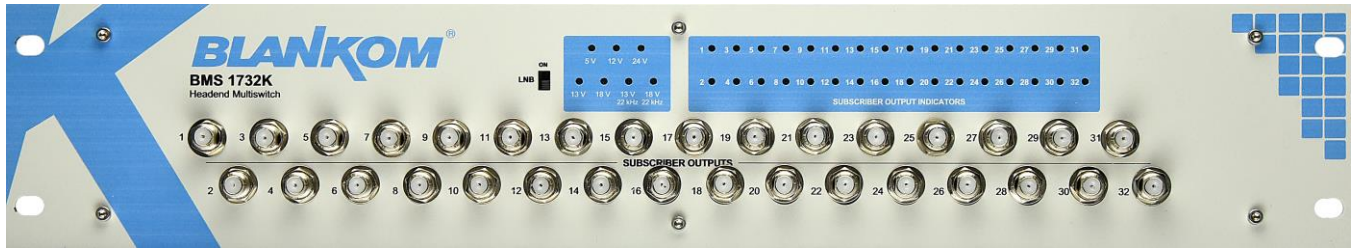


## 19" Multiswitch for 4x SAT + 1x Terrestrial



This 19" 2 RU rackmount cascadable Multiswitch is designed for up to 4 SAT position Inputs (+ Terrestrial) from standard quattro LNB's or from optic-electric converters such as BFR-41 via 1 CWDM – Fibre in a Headend and distribute up to 32 RF outputs to the Headend receivers. 4-fibre solutions are coming soon...



*Rear view*

### Main Features

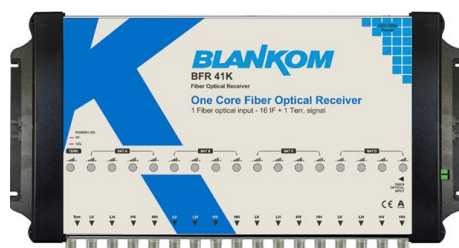
- Dual redundant internal high isolated industrial Power supplies
- Low power consumption, air circulation due to 2 separate fans
- Active TERR input (passive input available), LNB On/Off switch
- Tap loss 0,5dB , High isolation
- Quad & Quattro LNB compatible
- 950-2150MHz and 47-870MHz lossless sharp filter for each subscriber outputs
- Optimized RF design for the usage of DVB IPTV and Digital Headends
- Low signal resistant due to high gain through the receiver outputs
- Up to 8 consecutive cascading possible
- LED indicators for each receiver output
- RF - output port protection up to 100 volts
- +4dB equalizer range for each RF output compensating slope
- **Soon available with direct optical Inputs also as options for 2x SAT eltr. +2 opt.**

## Technical Specifications

<b>Inputs:</b>	SAT / IF TERR	16 1
<b>Receiver Outputs</b>		32
<b>Cascadable loop-through Outputs</b>	SAT / IF TERR	16 1
<b>TERR Gain</b>		23...25dB
<b>Selection of LNB / Polarity</b>	13V, 18V, 13V+22KHz, 18V	
<b>Frequency Range</b>	SAT / IF TERR	950-2150MHz 47-870MHz
<b>Tap-loss Subscriber Outputs</b>	SAT / IF @ 950MHz SAT / IF @ 2150MHz TERR. Rec / Out 1-8 TERR. Rec / Out 9-16 TERR. Rec / Out 17-24 TERR. Rec / Out 24-36	+1dB±1 +1dB±1 -4dB±2 -4dB±2 -4dB±2 -4dB±2
<b>Max. Input Level</b>	SAT / IF TERR	98dBµV 88dBµV
<b>Max. Output Level</b>	SAT / IF IMA3 TERR	102dBµV 85dBµV
<b>Return-loss</b>	Input / Output	10dB / 14dB
<b>Isolation</b>	SAT-SAT SAT-TV	>33dB >37dB
<b>Usable LNBS</b>	Quad & Quattro	
<b>Max. Current from Subscriber Output</b>	41mA	
<b>Max. Current from System</b>	960mA	
<b>Max. Current with LNB</b>	920mA	
<b>Operating Temperature</b>	-85...+50°C	
<b>Dimensions</b>	320 x 320 x 90mm (2RU)	

### Corresponding products:

**BPF-41, optical Transmitter for 4x SAT + 1x terr. / BFR-41 opt. Receiver-converter:**



## Application example:

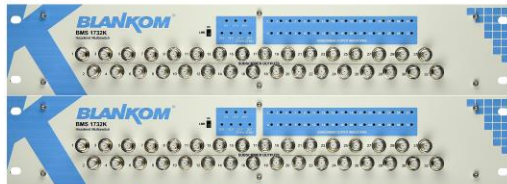
## System concept Headend System

Single Fibre-Optical SAT distribution for longer Distances between DISH farm and Headend station.  
56 transponder FTA + 4 Transponders with CAM CI Modules, 4 dish + 1 terrestrial antenna supported by 19" Multiswitch



1 Fibre optical distribution with a distance of 4km: BPF 41-2

BFR-41: Optical electrical converter

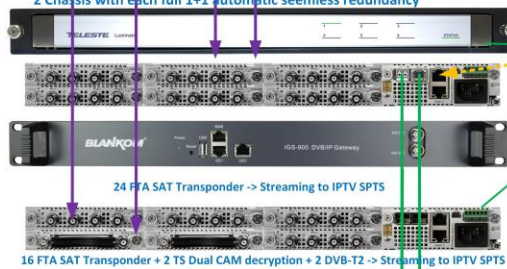


BMS 1732K:  
2x 17-32 Kaskade  
Max. 64 RF outputs

Max to received Transponders + DVB-T = 64

60 SAT-RF to the receiver-streamer + DVB-T

2 Chassis with each full 1+1 automatic seamless redundancy



External redundant Psu, serves up to 6 Chassis

1-2RU Omniscreen TV Middleware-Server



12 HDMI channels to encode and stream

1x EMU-8512

HDMI-Encoder -> Streamer with max. 24 Inputs

Management Switch

NMS

Content-Player

STB-to encode

External redundant Psu, serves up to 6 Chassis

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