

Compact Hybrid Headends

Benefits at a glance:

- ✓ 16 independent multituner inputs
- ✓ Transmodulates 16 × DVB-S/S2/S2X/T/T2/C into 16 × DVB-C/-T and 512 × SPTS or 16 × MPTS (for IPTV software extension required)
- ✓ Simultaneous RF/IP output possible
- ✓ Future-proof for the gradual technology change to IP
- ✓ Optimized capacity management
- ✓ Remux | Crossmultiplex
- ✓ NIT editing option (software extension required)
- ✓ PID Filtering (software extension required)
- ✓ Interface for CASimulcrypt Server (software extension required)
- ✓ Web-based configuration, remote maintenance (SMARTPortal)
- ✓ Supports SNMPv1 and SNMPv2c
- ✓ Can be used for wall mounting or as a 19" unit

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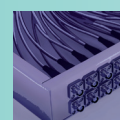
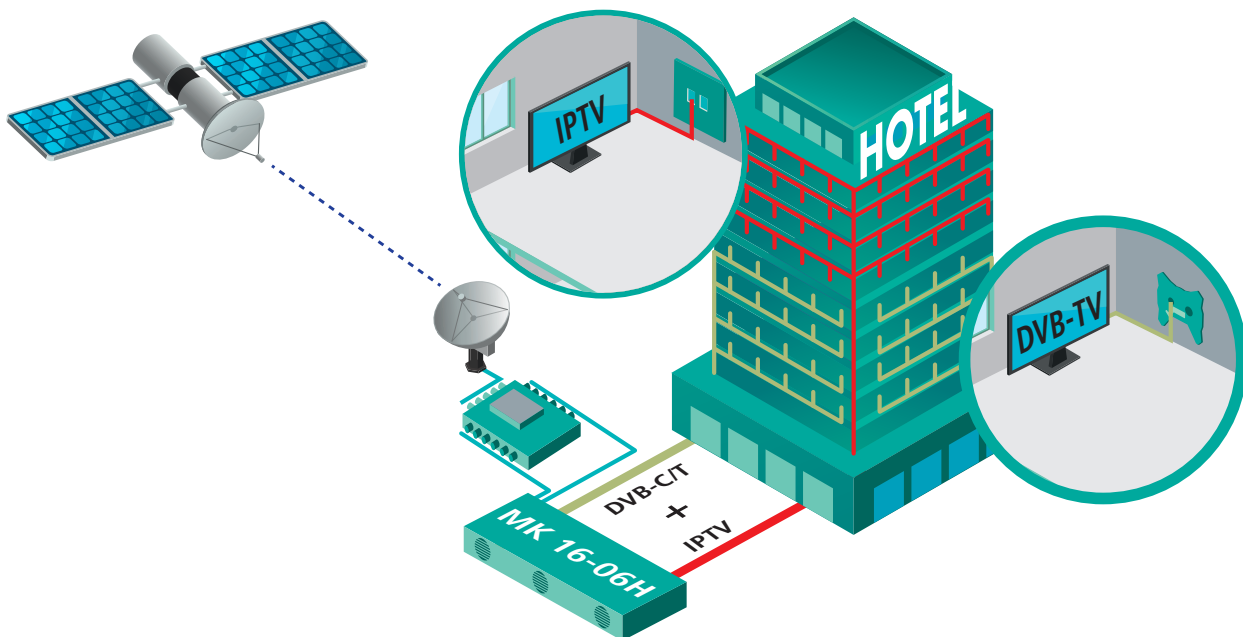


Available devices:

- | | |
|-----------|---|
| MK 16-00H | 16 × DVB-S/T/C into DVB-C/T/IPTV |
| MK 16-06H | 16 × DVB-S/T/C into DVB-C/T/IPTV 6 x CI |

Zubehör:

- | | |
|-----------|---|
| MKS 1-03H | Allows simultaneous output of RF output signals (DVB-C/-T) or IPTV output signals |
| MKZ 1-00 | Front panel for 19" usage |
| MKZ 1-01 | Front panel for 19" usage 6 x CI |



AXING AG

Gewerbehaus Moskau

Phone +41 52 - 742 83 00

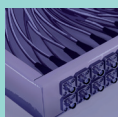
Fax +41 52 - 742 83 19

8262 Ramsen

info@axing.com

www.axing.com

Type	MK 16-00H	MK 16-06H
Inputs		
Number of tuners	16 × DVB-S/S2/S2X/T/T2/C	
Connector	16 × F-female	
Frequency range	900 ... 2150 MHz @ DVB-S/S2/S2X 50 ... 898 MHz @ DVB-C 50 ... 898 MHz @ DVB-T/T2	
Channel bandwidth	5/6/7/8 MHz @ DVB-T/T2	
Input level	43 ... 84 dBµV @ DVB-S/S2/S2X 49 ... 84 dBµV @ DVB-C 39 ... 84 dBµV @DVB-T/T2	
LNB voltage	13/17 V; 22 kHz on/off; DiSEqC 1.0	
Max. LNB current	250 mA per input 1000 mA per device	
CI slots	-	6
Input modulation		
Type	QPSK/8PSK/8APSK/16APSK/32APSK @ DVB-S/S2/S2X QAM16, QAM32, QAM64, QAM128, QAM256 @ DVB-C QPSK, QAM16, QAM64 @ DVB-T QPSK, QAM16, QAM64, QAM256 @ DVB-T2	
Supported input transport streams	MPEG-2 ISO/IEC 13818 MPEG-4 ISO/IEC 14496	
Error correction	auto	
Symbol rate	1.5 ... 45 MS/s (< 40 MS/s in 32APSK) @ DVB-S/S2/S2X 1 ... 7.2 Mbaud @ DVB-C	
Transportstreams		
Modifiable program information	Program name, SID remapping, PID remapping, PID filtering* TSID, ONID	
LCN	Yes	
NIT handling @ DVB-C	auto off manual*	
Encryption	DVB-CSA*, DVB-CISSA*, ATIS-IDSA*, AES-ECB*, AES-CBC*	
Output		
Number of channels	16 × DVB-C/DVB-T	
Frequency range	109 ... 1006 MHz @ DVB-C 109 ... 862 MHz @ DVB-T	
Channels selectable	S2 ... K87 @ DVB-C S2 ... K69 @ DVB-T	
Channel bandwidth	7/8 MHz @ DVB-T	
Possible frequency shift	−4 ... +4 MHz (0,5 MHz steps)	
Connector	1 × F-female	
Test port	1 × F-female (−30 dB)	
Impedance	75 Ω	
Output level adjustable	80 ... 100 dBµV @ DVB-C 77 ... 98 dBµV @ DVB-T	
Output modulation		
Compliance	DVB-T (EN 300 744) DVB-C (EN 300 429/ITU-TJ.83 Annex A/C)	
Type	QAM16, QAM32, QAM64, QAM128, QAM256 @ DVB-C QPSK, QAM16, QAM64 @ DVB-T	
MER	≥ 40 dB @ DVB-C ≥ 36 dB @ DVB-T	
Bit rate, max	50.87 Mbps @ DVB-C 31.668 Mbps @ DVB-T	
FFT	2K mode @ DVB-T	
FEC	1/2, 2/3, 3/4, 5/6, 7/8 @ DVB-T	
Guard interval	1/4, 1/8, 1/16, 1/32 @ DVB-T	
Symbol rate	1 ... 7.5 MBaud/s @ DVB-C	
IP output		
Transportstreams	512 × SPTS 16 × MPTS	
Total net data rate	900 Mbps	
Data rate per tuner	125 Mbps	
Supported transport protocols	UDP	
Supported application protocols	RTP	
Interfaces		
Ethernet connectors (LAN)	2 × RJ 45	
Supported configuration protocols	HTTP, SNMP v1, SNMP v2c, AXING SMARTPortal**	
General		
Operating voltage	100 ... 240 VAC/50 ... 60 Hz	
Equipotential bonding connection	4 mm²	
Operating temperature range (acc. to EN 60065)	−10 °C ... +50 °C	
Dimensions (W × H × D) appr.	480 × 253 × 47 mm	
Weight	3.150 kg	
Comments	* with software extension only ** encrypted, cloud-based application for configuration, monitoring and remote maintenance	



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