

MK 16-06H Hybrid dual headend | CI



- ✓ 16 independent multituner inputs
- ✓ Transmodulates 16 × DVB-S/S2/S2X/T/T2/C into 16 × DVB-C/-T and simultaneously in 512 × SPTS (for SPTS a software extension is required)
- ✓ Single cable reception I and II possible
- ✓ Simultaneous RF/IP output possible
- ✓ Future-proof for the gradual technology change to IP
- ✓ Optimized capacity management
- ✓ Remux | Crossmultiplex
- ✓ Decryption of encrypted program packages possible via CA modules (also high-speed modules)
- ✓ Flexible and efficient mapping of programs to CA modules
- ✓ 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

Order information

Type	MK 16-06H
Order no.	MK01606H
GTIN	7611682400366
PE	1
VE	1
EU customs tariff number	85256000



Technical data

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/16PSK/32APSK @ DVB-S/S2/S2X QAM16, QAM32, QAM64, QAM128, QAM256 @ DVB-C QPSK, QAM16, QAM64 @ DVB-T QPSK, QAM16, QAM64, QAM256 @ DVB-T2
Compliance	DVB-S = EN 300 421 DVB-S2 = EN 302 307-1V1.4.1 DVB-S2X = EN 302 307-2V1.1.1 DVB-C = EN 300 429/ITU-TJ.83 Annex A/C DVB-T = EN 300 744 DVB-T2 = ETSI EN 302 755
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	2 × RJ 45
Ethernet standards	IEEE 802.3, 100 Base-T @ Control IEEE 802.3, 1000 Base-T /1 GbE @ IPTV OUT
Supported configuration protocols	HTTP, SNMP v1, SNMP v2c, AXING SMARTPortal**
General	
Operating temperature range (acc. to EN 60065)	-10 °C ... +50 °C
Operating voltage	100 ... 240 VAC/50 ... 60 Hz
Power consumption	70 W
Equipotential bonding connection	4 mm ²
Dimensions (W × H × D) appr.	480 × 253 × 47 mm
Weight	3.420 kg
Comments	* with software extension only ** encrypted, cloud-based application for configuration, monitoring and remote maintenance

Suitable products

[MKS 1-00 Software extension to edit a NIT](#)

[MKS 1-01 Software extension for PID filtering](#)

[MKS 1-02 Software extension for CASimulcrypt](#)

[MKS 1-03H Software extension for IPTV output](#)

[MKZ 1-01 Front panel for 19" usage | 6 × CI](#)

[HKM 40-02H 4-way HDMI to DVB-C/T/IPTV encoder/modulator](#)

[UIM 20-05H Universal IP Modulator DVB-C/T/IPTV | 20 in 5](#)