

Compact High Performance Headend with integrated multiswitch

Benefits at a glance:

- ✓ Cost efficient
- ✓ 4 inputs for Quattro or Quad LNB
- ✓ With integrated multiswitch
- ✓ Transmodulates the signals of one SAT position (DVB-S/S2/S2X) into DVB-C/-T
- ✓ Output modulation configurable
- ✓ 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

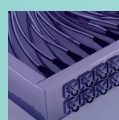
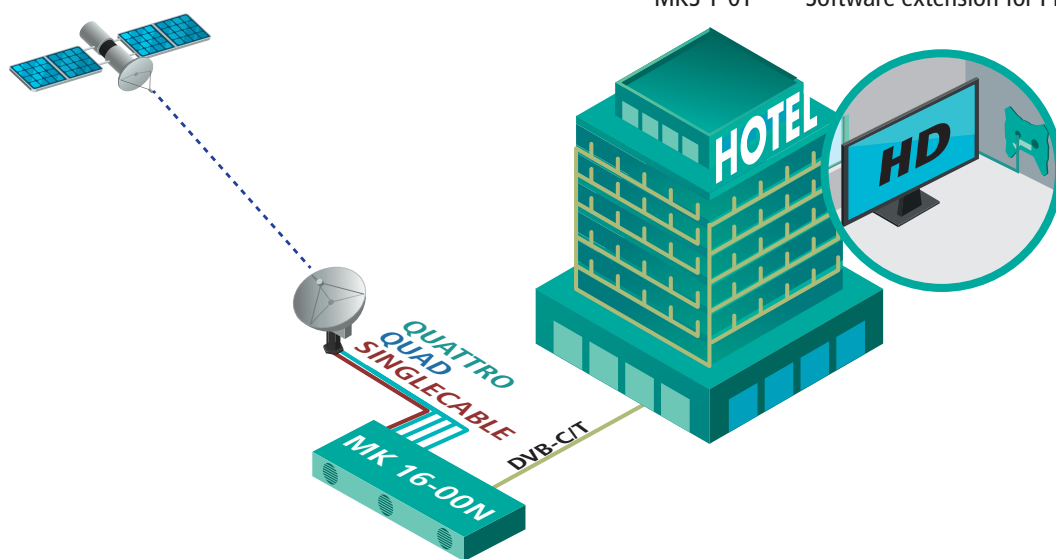


Available devices:

MK 8-10N	DVB-S/S2/S2X in 8 × DVB-C/T
MK 8-13N	DVB-S/S2/S2X in 8 × DVB-C/T CI
MK 12-10N	DVB-S/S2/S2X in 12 × DVB-C/T
MK 12-13N	DVB-S/S2/S2X in 12 × DVB-C/T CI
MK 16-00N	DVB-S/S2/S2X in 16 × DVB-C/T

Accessories:

MKZ 1-02	Front panel for 19" usage
MKZ 1-13	Front panel for 19" usage CI
MKS 1-00	Software extension to edit a NIT
MKS 1-01	Software extension for PID filtering



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Typ	MK00810N	MK00813N	MK01210N	MK01213N	MK01600N
Inputs					
Connector	4 × F-female				
Frequency range	950 ... 2150 MHz @ DVB-S/S2/S2X				
Input level	43 ... 84 dBμV @ DVB-S/S2/S2X				
LNB voltage	13/17 V; 22 kHz on/off; DiSEqC 1.x				
Max. LNB current	250 mA per input 500 mA per device				
Input modulation					
Type	QPSK/8PSK/8APSK/16APSK/32APSK @ DVB-S/S2/S2X				
Compliance	DVB-S = EN 300 421 DVB-S2 = EN 302 307-1V1.4.1 DVB-S2X = EN 302 307-2V1.1.1				
Supported input transport streams	MPEG-2 ISO/IEC 13818 MPEG-4 ISO/IEC 14496				
Symbol rate	1.5 ... 45 MS/s (< 40 MS/s in 32APSK) @ DVB-S/S2/S2X				
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	8 × DVB-C/DVB-T	8 × DVB-C/DVB-T	12 × DVB-C/DVB-T	12 × DVB-C/DVB-T	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				
Impedance	75 Ω				
Output level adjustable	75 ... 95 dBμV				
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				
Interfaces					
Ethernet standards	IEEE 802.3, 100 Base-T @ Control				
Supported configuration protocols	HTTP, SNMP v1, SNMP v2c, AXING SMARTPortal**				
Ethernet connectors	1 × RJ 45				
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				
Comments	* with software extension only ** encrypted, cloud-based application for configuration, monitoring and remote maintenance				

