

MIE 4-02 IP to DVB-T2 | 4K | 47.7 Mbps



- ✓ Modular system, includes 1 module
- ✓ Two redundant IPTV inputs (900 Mbps)
- ✓ Supports SPTS and MPTS (also mixed)
- ✓ Transmodulates max. 512 input streams in 4 DVB-T2 output channels
- ✓ FFT max. 4k | Bitrate max. 47.7 Mbps
- ✓ Re-Multiplexing and PID Filtering
- ✓ Program duplication
- ✓ Device redundancy configurable (software extension required)
- ✓ OTA upgrade e.g. for Set Top Boxes possible
- ✓ Interface for CASimulcrypt Server (software extension required)
- ✓ Class A according to EN 50083-2
- ✓ Web-based configuration, suitable for AXING SMARTPortal
- ✓ Supports SNMPv1 and SNMPv2c
- ✓ 2 × redundant power supply units
- ✓ 19" housing, 1RU

Order information

Type	MIE 4-02
Order no.	MIE00402
GTIN	7611682007237
PE	1
VE	1
EU customs tariff number	85176990



Technical data

IPTV input

Supported input transport streams	SPTS, MPTS (CBR/VBR)
Max. number (out of SPTS or MPTS)	512
Supported protocols	IP V4; UDP; RTP; IGMP v2, v3
Total net data rate	1 × 900 Mbps

Transportstreams

Modifiable program information	Program name, SID remapping, PID filtering, TSID, ONID
PCR correction	automatic, adaptive, <500 ns
LCN	Yes
EPG regeneration	Yes
Encryption	DVB-CSA*   DVB-CISSA*   ATIS-IDSA*   AES-ECB*   AES-CBC*

Output

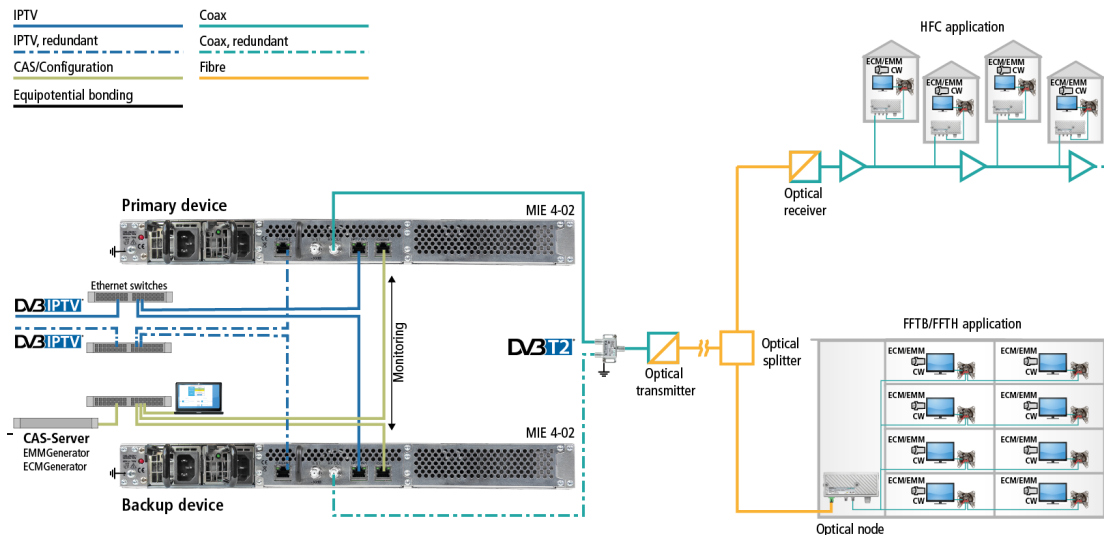
Number of channels	1 × 4 × DVB-T2
Frequency range	109...862 MHz
Channels selectable	52...K69
Channel bandwidth	7/8 MHz
Net mode	MFN
Possible frequency shift	-4...+4 MHz (0.5 MHz steps)
Connector	1 × F-female
Test port	1 × F-female (-30 dB)
Impedance	75 Ω
Output level adjustable	85...105 dBμV

Output modulation

Compliance	EN 50083-9   ETSI TS 101 154   ETSI EN300 429   ETSI EN 300 744 DVB-T2** acc. to EN 302 755, mode A (single PLP)
L1 post signalling	BPSK, QPSK, 16QAM, 64QAM
Type	QPSK, QAM16, QAM64, QAM256
Supported output formats	MPEG-2/H.262, MPEG-4/H.264 and HEVC/H.265
MER	≥ 43 dB
BER	≥9x10-9
Shoulder attenuation	≥ 56 dB
C/N	≥45 dB

Reflection	>14 dB
Bit rate, max	47.7 Mbps
FFT	1K, 2K, 4K mode
FEC type	BCH, LDPC
FEC length	16200, 64800
FEC	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Pilot pattern	PP1...PP8
Guard interval	1/4, 1/8, 1/16, 1/32
<b>Interfaces</b>	
IPTV input	1 x RJ45
CAS/IPTV (redundant)	1 x RJ45
Compliance IPTV/CAS interfaces	IEEE 802.3, 1000 Base-T (GigE)
Control/CAS	1 x RJ-45
Compliance Control/CAS	IEEE 802.3, 10/100 Base-T
Software control and upgrading	Via Remote Access
Supported configuration protocols	HTTP, SNMP v1, SNMP, v2c, AXING SMARTPortal***
<b>General</b>	
Operating voltage	100...240 VAC/50...60 Hz   48 VDC
Power consumption	30 W
Redundant power supply	2 x Hot pluggable
Equipotential bonding connection	4 mm <sup>2</sup>
Operating temperature range (acc. to EN 60065)	-10°C...+50°C
Storage temperature range (acc. to EN 60065)	-20 °C...+80 °C
Dimensions (W x H x D) appr.	480 x 43 x 275 mm
Weight	3.150 kg
Comments	* with software extension MKS 1-02 only ** switchable to DVB-T by license key *** encrypted, cloud-based application for configuration, monitoring and remote maintenance

## Example of use



## Suitable products

[MIM 4-02 Extension modul for MIE 4-02](#)

[MIS 1-11 Software extension for MIE device redundancy](#)

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