

## MIP 16-00 Multituner | IPTV hexadeca streamer | FTA



- ✓ 16 independent multituner inputs
- ✓ Transmodulates 16 × DVB-S/S2/S2x/T/T2/C into 512 SPTS/16 MPTS
- ✓ GbE-interface with max. 900 Mbps
- ✓ Web-based configuration, remote maintenance (SMARTPortal)
- ✓ Supports SNMPv1 and SNMPv2c
- ✓ M3U playlist for the TV/radio programs of the transport stream
- ✓ Interface for CASimulcrypt Server (software extension required)
- ✓ Class A according to EN 50083-2
- ✓ 19" housing, 1RU
- ✓ Two redundant power supplies (hot pluggable)

## Order information

|                          |               |
|--------------------------|---------------|
| Type                     | MIP 16-00     |
| Order no.                | MIP01600      |
| GTIN                     | 7611682006629 |
| PE                       | 1             |
| VE                       | 1             |
| EU customs tariff number | 85176990      |



## 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<br>50...898 MHz @ DVB-C<br>50...898 MHz @ DVB-T/T2                                                                                              |
| Input level                        | 43...84 dBμV @ DVB-S/S2/S2X<br>49...84 dBμV @ DVB-C<br>39...84 dBμV @ DVB-T/T2                                                                                                |
| LNB voltage                        | 13/17 V; 22 kHz on/off; DiSEqC 1.0                                                                                                                                            |
| Max. LNB current                   | 150 mA per input<br>1000 mA per device                                                                                                                                        |
| Input modulation                   |                                                                                                                                                                               |
| Type                               | QPSK, 8PSK, 16APSK, 32APSK @ DVB-S/S2/S2X<br>QAM16, QAM32, QAM64, QAM128, QAM256 @ DVB-C<br>QPSK, QAM16, QAM64 @ DVB-T<br>QPSK, QAM16, QAM64, QAM256 @ DVB-T2                 |
| Compliance                         | DVB-S = EN 300 421<br>DVB-S2 = EN 302 307-1V1.4.1<br>DVB-S2X = EN 302 307-2V1.1.1<br>DVB-C = EN 300 429/ITU-TJ.83 Annex A/C<br>DVB-T = EN 300 744<br>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 (<40MSymbol/s in 32APSK) @ DVB-S<br>1...7.2 Mbaud @ DVB-C                                                                                                       |
| Transportstreams                   |                                                                                                                                                                               |
| Modifiable program information     | Program name, SID remapping, PID remapping, PID filtering* TSID, ONID                                                                                                         |
| LCN                                | Yes                                                                                                                                                                           |
| Encryption                         | DVB-CSA*, DVB-CISSA*, ATIS-IDSA*, AES-ECB*, AES-CBC*                                                                                                                          |
| IPTV output                        |                                                                                                                                                                               |
| Transportstreams SPTS   MPTS       | 512   16                                                                                                                                                                      |
| Total net data rate                | 900 Mbps                                                                                                                                                                      |
| Data rate per tuner                | 125 Mbps                                                                                                                                                                      |
| Supported transport protocols      | UDP                                                                                                                                                                           |
| Supported application protocols    | RTP                                                                                                                                                                           |
| Interfaces                         |                                                                                                                                                                               |
| IPTV output                        | 1×RJ-45                                                                                                                                                                       |
| Compliance IPTV interface          | IEEE 802.3, 1000 Base-T /1 GbE                                                                                                                                                |
| Configuration interface            | 1 × RJ-45                                                                                                                                                                     |
| Compliance configuration interface | IEEE 802.3, 100 Base-T                                                                                                                                                        |

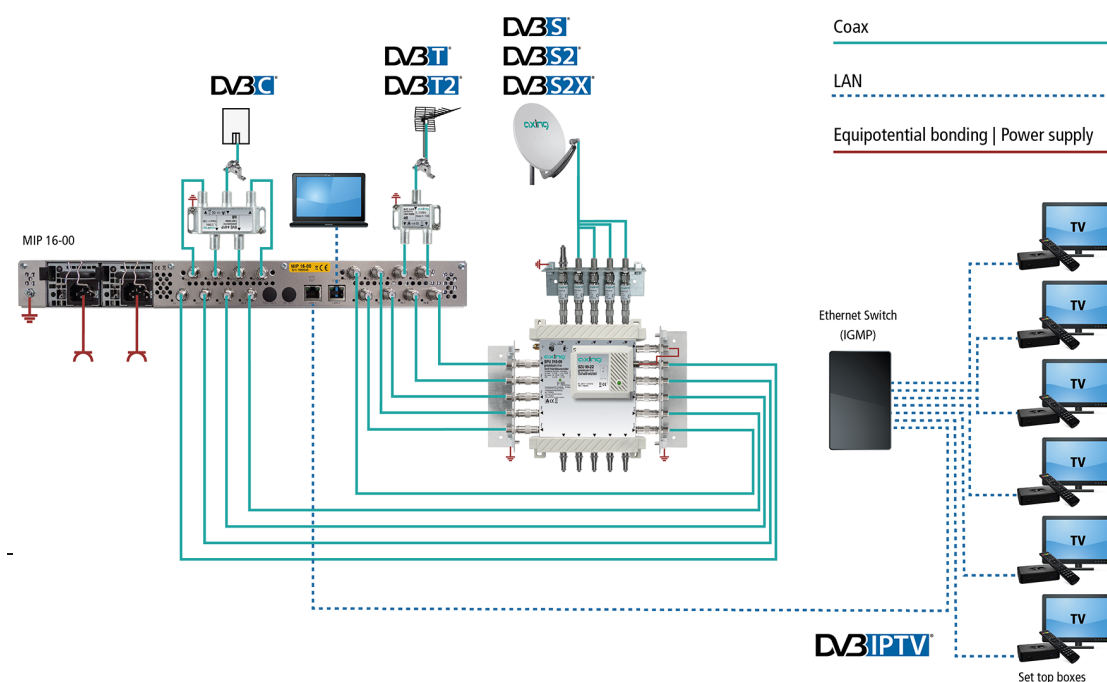
## Supported configuration protocols

HTTP, SNMP v1, SNMP, v2c, AXING SMARTPortal\*\*

### General

|                                                |                                                                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Operating voltage                              | 100...240 VAC/50...60 Hz                                                                                                     |
| Switching power supply                         | 2 (redundant)                                                                                                                |
| Power consumption                              | 70 W                                                                                                                         |
| Operating temperature range (acc. to EN 60065) | -10°C...+50°C                                                                                                                |
| Dimensions (W × H × D) appr.                   | 480 × 47 × 253 mm                                                                                                            |
| Weight                                         | 3.750 kg                                                                                                                     |
| Comments                                       | * with software extension only<br>** encrypted, cloud-based application for configuration, monitoring and remote maintenance |

## Example of use



## Suitable products

MKS 1-01 Software extension for PID filtering

MKS 1-02 Software extension for CASimulcrypt