

**⚠ WARNING**

- Observe the safety instructions supplied with the device!  
They are also available at the following Internet address:  
[https://download.axing.com/BAs/Sicherheitshinweise\\_9sprachig.pdf](https://download.axing.com/BAs/Sicherheitshinweise_9sprachig.pdf)
- Use the device only as described in these operating instructions and in particular in accordance with the state of the art.  
If the device is used for other purposes, no warranty will be assumed!

**Technical data:**

Type	MIE 1-16N
<b>IPTV input</b>	
Supported input transport streams	SPTS, MPTS (CBR/VBR)
Max. number (out of SPTS or MPTS)	512
Total net data rate	1 × 900 Mbps
<b>Output</b>	
Number of channels	1 × 16 DVB-C 1 × 12 DVB-T
Frequency range	-
Channels selectable	S2 ... K87 @ DVB-C S2 ... K69 @ DVB-T
Channel bandwidth	-
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 ... 105 dBμV @ DVB-C 77 ... 102 dBμV @ DVB-T
<b>Interfaces</b>	
Ethernet connectors (LAN)	4 × RJ45
Compliance IPTV/CAS interfaces	IEEE 802.3, 1000 Base-T (GigE)
Compliance configuration interface	IEEE 802.3, 10/100 Base-T
<b>General</b>	
Operating voltage	12 ... 16 VDC
Power consumption	35 W
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 × H × D) appr.	137 × 253× 42 mm
Weight	1.100 kg
<b>External accessories</b>	
Switching power supply	100 ... 240 VAC/50 ... 60 Hz   16 VDC/3.5 A



**CHP - Compact High Performance Headends**  
**MIE 1-16N**  
**premium-line**  
**Compact EdgeQAM**  
**Quick start guide**



**CE** **EU Declaration of Conformity**  
Hereby AXING AG declares that the CE marked products comply with the valid EU guidelines.

**WEEE** Nr. DE26869279 | Electrical and electronic components must not be disposed of as residual waste, it must be disposed of separately.

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Technical improvements, changes in design, printing and other errors reserved.

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Product description

The headends convert IPTV transport streams (SPTS and MPTS) into DVB-C or DVB-T output channels.  
MIE 1-16N supports SPTS and MPTS (also mixed) and transmodulates max. 512 input streams in 16 DVB-C or 12 DVB-T output channels.

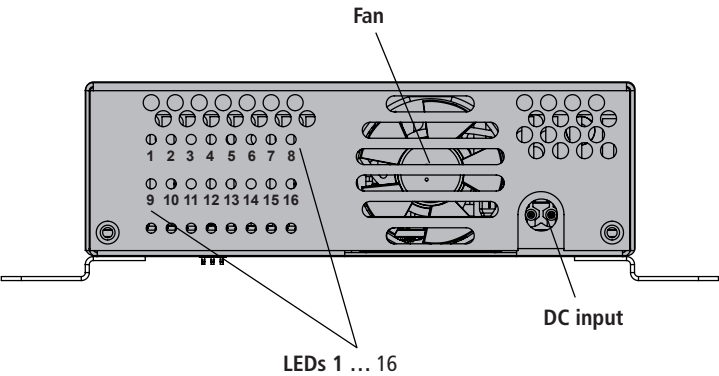
Scope of delivery:

- 1 × Compact IPQAM
- 1 × External power supply unit
- 1 × Quick start guide
- 1 × Safety advises

Available Accessories

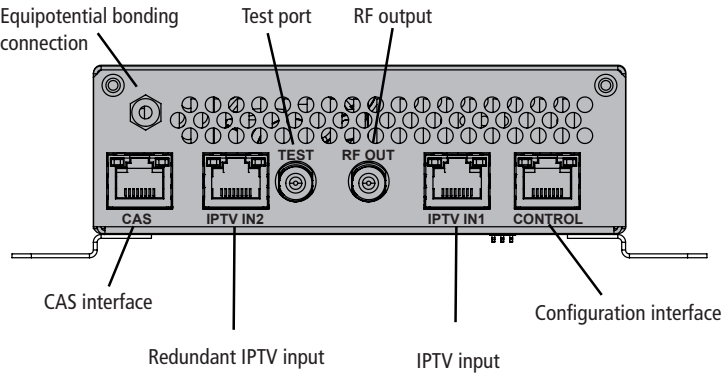
- |          |  |
|----------|--|
| MIS 1-11 | Software extension for MIE device redundancy<br>Offers the possibility to replace a device with another device, e.g. in case of failure. |
| MKS 1-02 | Software extension for CASimulcrypt<br>Offers the possibility to encrypt programmes.   |

Display elements



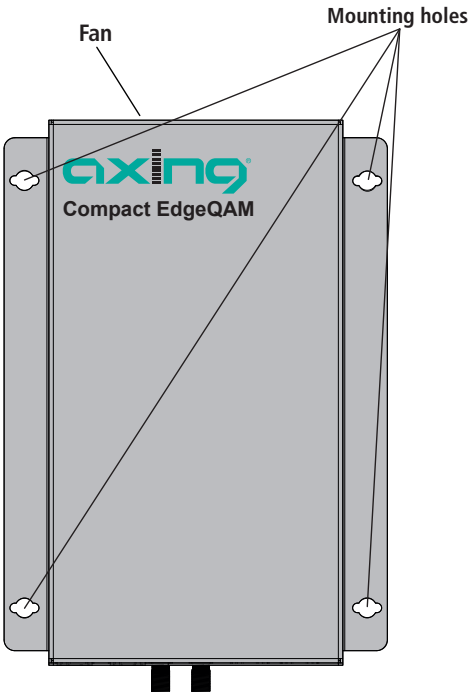
- The LEDs show the state of the output modulators 1 ... 16:
- ✓ When a modulator is filled with content and the modulator is not overloaded, the corresponding LED lights up green.
  - ✓ If a modulator is on but not filled (without content), the corresponding LED flashes.
  - ✓ If a modulator is overloaded (too much content), the LED lights up red.
  - ✓ In case a modulator is turned off, the corresponding LED is off.

Connectors



Mounting and Installation:

- **Before mounting and installation, pull the mains plug!**  
The headend are fitted with wall brackets.
- Notes:** For thermal reasons we strongly recommend that you mount the device vertically and with the RF and Ethernet connections facing downwards (fan on the top). The headend must be wall mounted with at least 10 cm clearance along the 4 sides.



- The installation must be carried out on an even and vertical surface (any unevenness must be compensated).
- Fix the device with minimum four pcs of 4 × 30 mm screws.

Equipotential bonding

- The device must be connected to the equipotential bonding according to EN 60728-11.
- Use the equipotential bonding connection at the device.
- To connect the outer conductor of the coaxial cable to the equipotential bonding, use e.g. QEW earthing angles or CFA earth connection blocks.

Power supply

- Connect the DC plug of the power supply unit to the DC socket of the device.
- Plug the mains plug of the power supply unit into a socket.  
The device is operational after connection to the mains voltage.

IPTV input

- Connect the IPTV input to an Ethernet switch connected to the IPTV source. Use Cat 7 cable or higher.

RF output

- Connect the output (RF OUT) of the device to the established distribution network. Use a high-shielded coaxial cable with an F connector.

Configuration:

The device is configured via the graphical user interface. To access the user interface, you need a standard PC/laptop with a network interface, a commercially available network cable and the actual version of the installed web browser.

- |                       |               |
|-----------------------|---------------|
| ► Default IP address: | 192.168.0.145 |
| ► Subnet mask:        | 255.255.255.0 |

Accessing the configuration interface:

- Change the IP address of your PC/laptop, e.g. to 192.168.0.11, subnet mask: 255.255.255.0
- Connect the PC to the RJ-45 Ethernet connector **Control**.
- Enter the IP address of the MIE 1-16N in the web browser.

The configuration screen is password-protected:

- Enter the default password Ramsen8262 (after the first log-in, the password should be changed).
- Click the „Enter password” button.  
This will open the start page.
- Follow the steps of phase 1, 2 and 3 to configure the device.