

Instruction manual

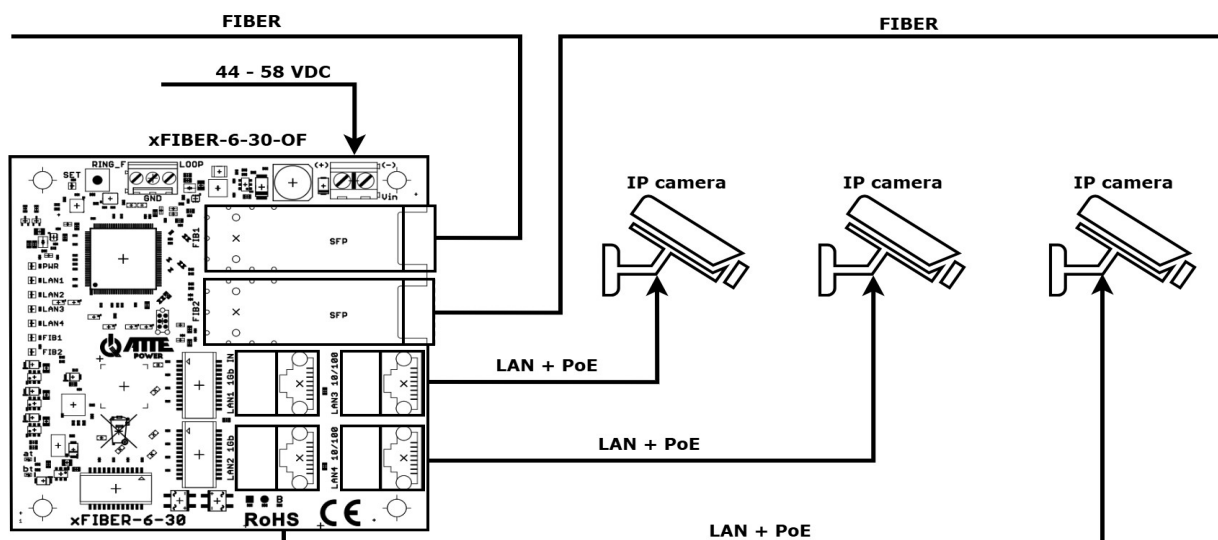
xFIBER-6-30-OF

4-port PoE switch with 2 SFP ports, RING mode

Operation Indication

LED PWR	White – power present Red (blinking) – input voltage below 44 V Red – input voltage too low ($V_{in} < 30 V$)
LED SET	Green – device in "slave" mode Blue – device in "master" mode
LAN1 – LAN 4	Green – data transmission on the port Orange – PoE and data transmission on the port Red – Ethernet loop
FIB1	Green – data transmission on the SFP port Blue – RING mode check on the SFP port
FIB2	Green – data transmission on the SFP port
AT	Red – device powered by 802.3at (30 W)
BT	Red – device powered by 802.3bt (60 W)
AT + BT	Red – device powered by 802.3bt (90 W)

Basic application



Description

xFIBER-6-30-OF is a 4-port PoE switch with two SFP ports. The device allows powering up to three PoE IP cameras and simultaneously provides fiber optic uplink connectivity.

The module is a PoE switch featuring 1 RJ45 PoE IN port (10/100/1000 Mbps) and 3 RJ45 output ports (one 10/100/1000Mbps port, two 10/100 Mbps ports) operating under the 802.3af/at standard. The device has two 100/1000 Mbps SFP ports.

The device can operate in a RING configuration. One of the modules must be set to "master" mode to manage the looped SFP ports.

To change the operating mode of the xFIBER-6-30-OF, press and hold the "SET" button for approximately 3 seconds until the adjacent LED starts blinking. Then, switch modes with a single press and confirm the selection by pressing and holding the button again for 3 seconds. In "master" mode, the SET LED should light up blue.

xFIBER-6-30-OF automatically detects network loop on the RJ45 ports. If a loop is detected on any of the ports, the affected connection is immediately disabled. This condition is indicated by the LAN1-LAN4 LEDs, which turn red.

The technical output (open-collector) signals port loops:

LOOP – loop detected on RJ45 ports

RING_F – correct Ring topology connection (indicated only on the device operating in "master" mode)

Installation

1. Install the device in the selected location.
2. Power the device by connecting the 44-58 VDC power cables to the Vin screw terminal or by connecting a UTP cable from a PoE switch to the LAN 1 input port.
3. Connect the fiber optic cables to the SFP ports.
4. Connect the IP PoE receivers to LAN2 – LAN4 ports.
5. Turn on the power.

Technical Specification

Connectors	Screw terminal Vin - cables 0.14–2.5 mm ² , 0.4 Nm Technical output – cables 0.14–1.5 mm ² , 0.2 Nm
LAN Ports	2 x RJ45 10/100/1000 Mbps 2 x RJ45 10/100 Mbps, 2 x SFP 100/1000 Mbps
Port functions	LAN 1: PoE input (switch power supply): 802.3af (up to 15W), 802.3at (up to 30W), 802.3bt (up to 60W), 802.3bt (up to 90W) PoE PINS: 1,2 (V+/-) 3,6 (V+/-) and/or 4,5 (V+/-) 7,8 (V+/-) OR LAN input LAN 2 ... LAN 4: PoE OUTPUT (power to devices): 802.3af (up to 15W), 802.3at (up to 30W) PoE PINS: 1,2 (V-) 3,6 (V+) 4,5 (V+) 7,8 (V-) Vin: DC power input 30 – 58 V (PoE on ports available when Vin > 44 V)
Additional features	In RING mode, one of the modules must be set as the "master", and then all switches must be connected via fibre optic cable in a ring topology.
Switching capacity	8,4 Gbps
Input voltage	30 – 58 V
Power consumption	3,3 W
Output voltage	Vout = Vin
Port protection	LAN 1 ... LAN 4 Surge protection LAN 2 ... LAN 4 Overload protection at 0.7 A
Technical output	Open-collector RING_F – indicates a correctly configured ring topology and allows detection of a break in the ring ("master" device only) LOOP – indicates a loop on the RJ45 ports GND – ground
Indicators	LED PWR White – power supply present Red (blinking) – input voltage below 44 V Red – input voltage too low (Vin < 30 V)
	LED SET Green – device in „slave“ mode Blue – device in „master“ mode
	LAN1 – LAN 4 Green – data transmission on the port Orange – PoE and data transmission on the port Red – Ethernet loop
	FIB1 Green – data transmission on the SFP port Blue – RING mode check on the SFP port
	FIB2 Green – data transmission on the SFP port
	AT Red – device powered by 802.3at (30 W)
	BT Red – device powered by 802.3bt (60 W)
	AT + BT Red – device powered by 802.3bt (90 W)
Housing construction	Open-frame module
Assembly	Snap-in spacer pins, mounting holes in 10.8 mm pattern
Operating temperature	-25 ... +65°C
Dimensions	89 x 86 x 24 mm
Weight	0,057 kg

Find out more

xFIBER-6-30-OF
on the WWW site



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Safety Precautions

- The installation and wiring must be performed by a competent engineer. For permanently connected equipment, a readily accessible disconnect device must be incorporated in the fixed wiring. The device must be connected to the mains supply 230 VAC 50 Hz via a specified fused connection outlet.
- Despite the fact that the enclosure of the device has a high degree of protection, it is recommended that the device should be mounted in places protected from direct influence of atmospheric factors, in particular against rain and direct sunlight.
- Since the power supply does not have a switch to isolate the mains supply, the installer is responsible for notifying the user of the means of isolating the mains supply from the device.
- When replacing fuses, use original or compatible types. The exact parameters of the fuses can be found on the inside of the device cover.

Before installation and during maintenance make sure that the mains voltage 230VAC is disconnected

This symbol on the product or on its packaging indicates that the product must not be disposed of with normal household waste. Instead such equipment must be disposed of by arranging to return it to a designated collection point for the recycling of waste electrical and electronic equipment.

