

xFIBER-2-70

Gigabit Ethernet media converter – SFP 10/100/1000Mbps PoE Out

INSTRUCTION MANUAL

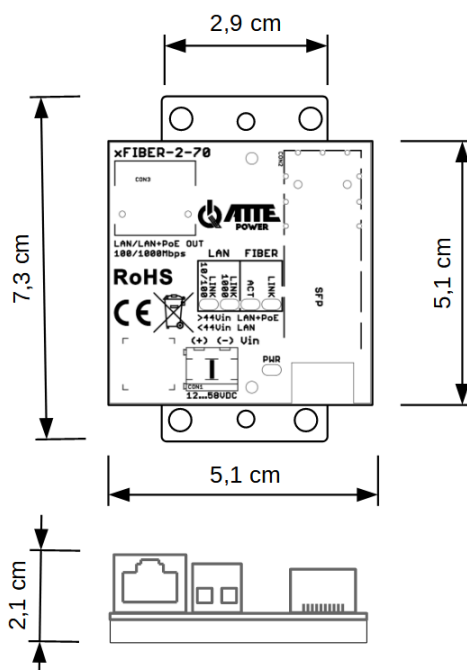
xFIBER-2-70 is a Gigabit Ethernet - SFP converter dedicated to IP CCTV systems. It allows you to change the transmission medium from UTP copper twisted pair to optical fiber. By using any SFP insert compatible with the IEEE 802.3z standard, we can adjust the parameters of the optical path to the requirements of the installation (e.g. cooperation with single-mode or multi-mode fibers).

In combination with APS/AUPS power supplies and APT/xPoE extenders, it enables easy construction of distribution points for extensive CCTV installations based on fiber optic cabling.

The module can be powered only through a screw connector with a voltage in the range of 12-58VDC.

The gigabit LAN port can support PoE-powered devices operating in the 802.3af/at and PASSIVE standards (for $V_{in} > 44VDC$). After connecting the receiver, the PoE power standard is automatically selected.

The small size allows the device to be built in any housing, but the most convenient method of installation is the dedicated ABOX series housings and mounting pre-drilled plates in a 10.8mm raster. The system solution allows for vertical or horizontal installation of selected devices in any open part of the housing or mounting plate.



General view of the device

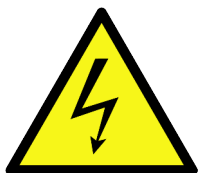
Technical Specification

LAN Ports	1 port RJ45 Gigabit 10/100/1000Mbps + PoE (auto MDI-MDIX, autonegotiation)
SFP ports	1 slot SFP Gigabit IEEE 802.3z
Ports Functions	for Vin <44V DC LAN 10/100/1000Mbps
	for Vin 44 – 58 V DC LAN 10/100/1000Mbps + PoE Automatic selection
	<ul style="list-style-type: none"> • 802.3 AF up to 15,4W • 802.3 AT up to 30W • PASSIVE up to 40W @56V PINY PoE: 1,2 (V-) 3,6 (V+) 4,5 (V+) 7,8 (V-)
Power Supply Voltage	CON1 Vin (+) (-): 12 ... 58 VDC
Ports Protection	LAN, CON1 Vin (+) (-) Overvoltage protection
Indication	PWR (white) – presence of power supply
	FIBER ACT (green) – SFP port activity FIBER LINK (green) - SFP transmission established
	LAN LINK 10/100 (green) - LAN (10/100 Mbps) transmission established LAN LINK 1000 (green) - LAN (Gigabit 1000 Mbps) transmission established
	LAN ACT (green) - activity on the LAN port LED in LAN connector (yellow) – PoE power on
Housing Construction	Universal mounting base
Assembly	Snap-on spacers, TH35 rail with an additional handle, can be screwed to a flat surface
Operating Temperature	-25°C...+65°C
Ingress Protection Rating	IP20
Dimensions	51 x 51(73) x 21 mm
Weight	0,029 kg

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.

WARNING



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

Installation

- Mount the device in a selected place and lead the connecting cables.
- Install the selected SFP fiber optic insert
- Attach the optical fiber to the SFP insert
- Connect the UTP cable to the LAN port. RJ-45 plugs on the cable should be crimped according to the T568B standard.
- Connect the power cables to the screw connector CON1 Vin (+) (-)
 - for $V_{in} < 44V$ DC no PoE power will be available on the LAN 10/100/1000Mbps output
 - for V_{in} in the range of 44 V - 58 V DC, PoE power will be available on the LAN 10/100/1000Mbps output. The connected receiver will be automatically identified and PoE will be turned on

Operation Indication

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- FIBER LINK (green) - SFP transmission established
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- LED in LAN connector (yellow) – PoE power on

WEEE MARKING



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.

