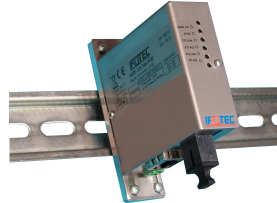


- Ethernet media converter over one or two optical fibres
- Compatible with PoE+ applications



Stand alone housing with DIN rail mounting

DESCRIPTION :

This media converter module allows a **10/100Base-T** Ethernet signal conversion to **100Base-BX** for a transmission over 1 optical fibre or **100Base-FX** over 2 optical fibres. The HDDF/HXDF-PoE module is also used for supplying the device connected to the cable.

In compliance with the IEEE 802.3at PoE (Power over Ethernet) standard, it ensures the Power Sourcing Equipment (PSE) function and provide up to 35W for Powered Devices (PDs) via the Ethernet cable.

This module has been designed specifically for:

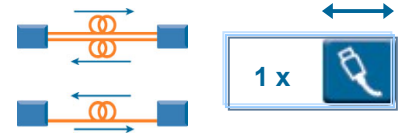
- IP camera or encoder
- Lan
- Man
- Industrial networks
- Ethernet networks extension...

Indicators ensure a safe utilization.

This equipment is available in stand-alone housing for integration at the foot of a camera mast in particular for the video surveillance over IP network.

A DIN rail mounting kit may be provided upon request

The module can be associated on the network or local technical side with an IFOTEC Ethernet media converter or Ethernet switch.
(Cf. Data sheets).



FUNCTION

- **10/100Base-T** media converter to **100Base-FX (2OF)** or **100Base-BX (1OF)** optical fibre
- IEEE 802.3 compliant

MAIN FEATURES

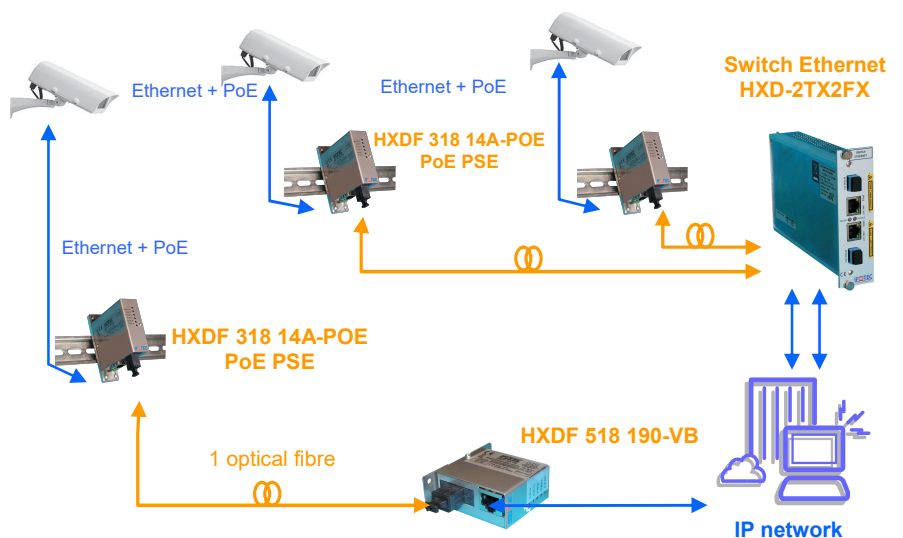
- Transmission over 1 multimode or singlemode fibre by the same module
- Transmission over 2 multimode or singlemode fibres by the same module.
- RJ45 for connecting signals by a crossover or patch cable (auto-negotiation).
- Transmission speed : **100 Mbit/s** auto-negotiated.
- Half and Full-duplex modes
- Can be integrated at mast foot
- PoE+ IEEE 802.3at power supply (≤ 35 W)
- 54VDC supply voltage for the module and PoE.
- Din rail mounting (option)
- Production place and after sales service : Voiron (France).
- Product warranty : 3 years

Contact :

IFOTEC – BP 247 – 38507
VOIRON
Tel : + 33 (0) 476 67 53 53
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Web site : www.ifotec.com
E-Mail : contact@ifotec.com

Conçu et fabriqué en France ■ ■

Configuration example over 1 optical fibre PoE media converter for IP camera or analog camera with IP encoder



LAN Interface specifications

Number of RJ45 access Protocols	1
Operating mode	10/100 Base-TX (auto-negotiated)
Connection	Half-duplex / Full-duplex
	4-pair cable 3 or 5 UTP crossover or patch cable (Auto-MDI)

Optical specifications

Optical fibre (µm)	Multimode (50/125 or 62.5/125)		Singlemode (9/125)	
Number of fibre and series	2 OF – HDDF series	1 OF – HXDF series	2 OF – HDDF series	1 OF - HXDF series
Optical budget	0 to 11 dB		0 to 20 dB	0 to 19 dB
Wavelength (TX)	1310 nm	1310 nm	1310 nm	1310 nm
Distance*	0 to 10 km		0 to 30 km	0 to 10 km
Connection	SC/PC duplex	SC/PC	SC/PC duplex	SC/PC

* Distances can change with the fibre type and the network and can be limited because of the bandwidth

Indicators

Indicators	Type	Function
Laser on	Green Led	Laser emission and power supply
PD connection	Green Led	Recognizing of POE PD device on the RJ45 port
RJ45 connection	Green Led	Connecting an Ethernet device to the port
RJ45 activity	Green Led	Ethernet signal reception on the RJ45 Port
Optical connection	Green Led	Optical connection
Activity on the optical port	Green Led	Ethernet signal reception over optical port

Housing

Stand-alone housing (L x l x h) : 67 x 62 x 23 mm
<ul style="list-style-type: none"> ▪ Fixing : screws or DIN rail mounting with KIT-RD-005 to be ordered separately ▪ Mounting plate 85 x 23 mm : 4 x Ø oblong 3.2 mm on a rectangle of 68 to 79 mm x 14 mm

Powering

Supply voltage : Nominal 54 VDC (50 to 57 V)
Power consumption : 2W max + power to provide to the connected equipment PD (35W max)
230 VAC power supply: 230 VAC-54 VDC converter, reference : FCAS 224 020

Environnement

Operating temperature : -20 to +60°C
Storage temperature : -40 to +85 °C
Relative humidity: 0 to 85 % (non condensing)-. Conformal coated option : 0 to 95% - Please add the suffix -C in the end of codification

REFERENCES :

Camera side (video transmission)

OVER 2 OPTICAL FIBRES TRANSMISSION :

Wavelength (λ)	References	Applications	Connection
Transmission up to 10 km over multimode fibres and up to 30 km over singlemode fibres			
1310 nm	HDDF 318 14A-POE	Media converter : 10/100 Base-TX / Fibre 100 Base-FX over 2 multimode or singlemode fibres	SC/PC

OVER 1 OPTICAL FIBRE TRANSMISSION :

Wavelength (λ)	References	Applications	Connection
Transmission up to 10 km over multimode or singlemode fibre			
Tx 1310 nm / Rx 1550 nm	HXDF 318 14A-POE	Media converter : 10/100 Base-TX / Fibre 100Base-BX over 1 fibre multimode or singlemode	SC/PC

Main associated products network side / technical room (video reception):

Please consult us

In line with the company policy of continuous improvement, product specifications are subject to change without prior notice