

HDDF-HXDF-2TG8FX

Ethernet link concentration switch

Multi-applications - Hardened environment

- Managed Gigabit Ethernet switch 10 optical ports
- 2 combo ports 1000Base-BX/FX or 100Base-BX/FX (SFP) or 10/100/1000 Base-TX
- 8 optical ports 100Base-FX or 100Base-BX-D



DESCRIPTION

This 10-port Ethernet switch associated with IFOTEC media converters allows to concentrate signals from Ethernet links (IP cameras, subscriber CPE, ...) over optical fibre.

The switch is equipped with 2 combo ports Gigabit Ethernet copper / fiber for connection to the networks (WAN) and 8-port 100Base-BX compatible with IFOTEC media converters, switches and CPEFibre.

The Gigabit link allows to connect 8 or 9 Fast Ethernet equipment like the media converters HXDF 318190 without contention.

The WAN access is ensured by SFP, Gigabit or Fast Ethernet optical modules and 10/100/1000Base-TX copper ports, which enables to interconnect with any type of equipment.

The second Gigabit Ethernet port offers several possibilities:

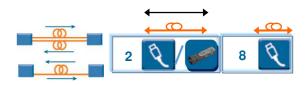
- Stacking switches to concentrate up to tens 100Base-BX Ethernet accesses
- To connect to the network via switches / routers Gigabit

The product is used for various applications:

- Video surveillance over IP
- Extending Ethernet networks
- Very high-speed broadband access
- Sensor networks

The managment allows configuration of the product and diagnosis remote link state.

This equipment is available in 19" 1U with integrated power supply.



MAIN FEATURES

- Managed Ethernet concentration switch :
 - 8 optical ports 100Base-BX-U
 - 2 combo ports Gigabit 10/100/1000Base-TX or GbE SFP, compliant with single mode or multimode fibres
- 32 VLANs 802.1q
- QinQ (double-tag): 802.1q and 802.1ad (configurable)
- QoS: Port priority, DSCP, VLANs priority (802.1p)
- Port bite rate limitation
- IGMP Snooping V1/V2 with VLANs management
- Secured loop configuration : RSTP
- Stackable compatible with secured loop
- Web (http) and Telnet advanced management functions, SNMP monitoring
- Update of configuration files and firmware through DHCP at product start
- Optical Ethernet link aggregation equipment that can be installed in an outdoor cabinet (neither heated nor refrigerated).
- Rack 19" 1U faible consommation (<15W) Alimentation secteur intégrée 85-260 VAC.
- Place of production and service : Voiron (France)
- Product Warranty: 3 years with IFOTEC SFP

Typical reference

HXDF 558 12S-2TG8FX-IV1

Managed Switch – 2 Gigabit ports – 8 Fast Ethernet ports -1 MMF or 1 SMF - Rack 19" 1U, 230VAC.

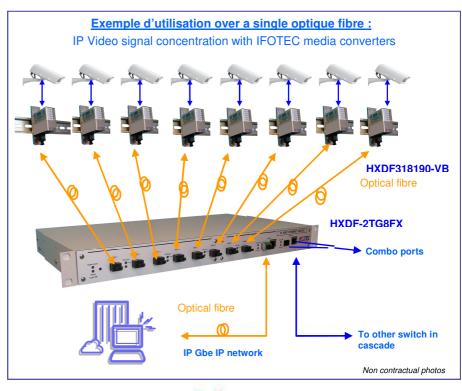
Les modules SFP doivent être commandés séparément, voir tableau de codification adapté.

Contact:

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HXDF-2TG8FX series

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LAN connection, IP video signals		Combo Ports for Gigabit Ethernet WAN Access				
		Ports fibre		Port Cuivre		
Access type Number of port Protocole Rate Optical fibres	100 Mbit/s optical port 8 100Base-BX-D (1 OF) 100Base-FX (2 OF) 100Mb/s Compliant with single mode or multimode fibres	Access type Interfaces Number of port Transmission protocol Ethernet rate	Gigabit Ethernet ports Ports for SFP modules 2 combo ports 1000Base-SX (MMF) 1000Base-LX (SMF) 1000Base-BX (SMF) 1000 Mb/s	Standard Number of interface Half/Full duplex configuration 10/100/1000Mb/s Ethernet rate Port line crossing	IEEE 802.3 2 ports combo Auto-negociated Auto-negociated Auto MDI/MDIX	

Optical specifications

LAN connection, IP video signals			Combo Ports for Gigabit Ethernet WAN Access			
Number of fibre 1 OF by access		. 1 OF by access		One or two optical fibres, single mode or multimode,		
Optical fibre (µm) Multimode (50/125 et 62.5/125)		Single momode (9/125)	Multimode (50/125 et 62.5/125)	Single momode (9/125)	according to the SFPs used.	
Optical budget Emitted wavelength (λ) Distance (Note 1)	15 dB 1550 nm 5 km <i>(Note2)</i>	15 dB 1550 nm 10 km	15 dB 1310nm 5 km	15 dB 1310 nm 30 km	Possibility to replace Gigabit Ethernet SFPs with Fast Ethernet SFPs according to network and applications (eg 9th port).	

Notes 1 Distances can change with the fibre type and the network and can be limited because of the bandwidth.

2 Distance for a multimode fibre of >500Mhzxkm @1310nm bandwidth

Supervision (Note 3)

- Management BY Web (http) page and Telnet. SNMP monitoring
- 32 VLANs 802.1q
- QinQ (double-tagging): 802.1q and 802.1ad (configurable)
 Notes 3: For detailed supervision functions please contact us
 4: Features under development. Update firmware possible remotely
- QoS: Port priority, DSCP, VLANs priority (802.1p)
- Port bite rate limitation
- IGMP Snooping V1/V2 with VLANs management, RSTP (Note 4)

Indicators

Link/Act : Ethernet link indicator and traffic indicator

Connector type Power supply

WAN access: LC/PC or depending on SFP used Supply voltage: 85 to 260 VAC, power cord provided

LAN access: SC/PC Power consumption : 15VA max

Power access : CE22 base with 2.5m long power cord provided

Housing Environment

Rack 19 pouces 1U maximum depth : 250mm Operating temperature: -20 ; + 60°C Storage temperature: -40 ; + 85°C

Relative humidity: 0 to 85 % (non condensing) Conformal coated: 0 to 95%. Please consult us

REFERENCES:

CONCENTRATION SYSTEM FOR ETHERNET NETWORKS OVER ONE OR TWO OPTICAL FIBRES:

References		Applications	Housing and Power supply	Connectors
HXDF 558 12S-2TG8FX-IV1	Switch Ethernet	8 x 100Base-BX-D optical fibre ports 2 x Gigabit combo ports: RJ45 or SFP*	Rack 1U, 230VAC	SC /PC SFP module
HDDF 358 12S-2TG8FX-IV1	Switch Ethernet	8 x 100Base-FX optical fibre ports 2 x Gigabit combo ports: RJ45 or SFP*	Rack 1U, 230VAC	SC /PC SFP module

^{*} Gigabit Ethernet SFP and Fast Ethernet SFP not included, to be ordered additionally. Please see the table below:

MAIN OPTICAL SFPs (-40 - +85 ° C)

FOR MORE INFORMATION, PLEASE CONSULT OUR SFP DATA SHEET

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References	Nbre and type of fibres	Transmission	Wavelength Tx/Rx	Distance maxi **	Connector
SFPL-1GD31-20	2 single-mode optical fibres	1000Base-LX	1310 nm	20 km	LC/PC
SFPL-1GX31-20	1 single-mode optical fibres	1000Base-BX-U	1310 nm /1550 nm	20 km	LC/PC
SFPL-1GX55-20	1 single-mode optical libres	1000Base-BX10-D	1550/1310 nm	20 KIII	
SFPL-FEX55-20	1 single-mode optical fibres	100Base-BX-D	1550/1310 nm	20 km	LC/PC

^{**} For other distances, please consult us.

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