

Features

- 10/100Base-TX to FX media converter
- 1- or 2-Fiber single-mode, or 2-fiber multimode
- Field-hardened
- In accordance with IEEE 802.3i and IEEE 802.3u
- Store-and-forward at full speed
- 128 k Buffer
- MDI/MDIX Autoselect
- Adjustment-free installation and operation



XSNet™ C3100MC series

10/100Base-TX to FX field-hardened media converter

Description

The versatile XSNet™ C3100MC series media converters offer cost-effective solutions for optical LAN and WAN networks. XSNet™ C3100MC series modules are plug-and-play for easy installation, featuring autonegotiation and auto-MDI/ MDIX detection. The C3100MC family is field-hardened.

The XSNet™ C3100MC series provides exceptional performance under severe conditions. For example, performance is not hindered by mechanical stress (vibration and shock) or extreme temperatures. This robust nature provides an ideal solution for critical infrastructure and traffic applications.

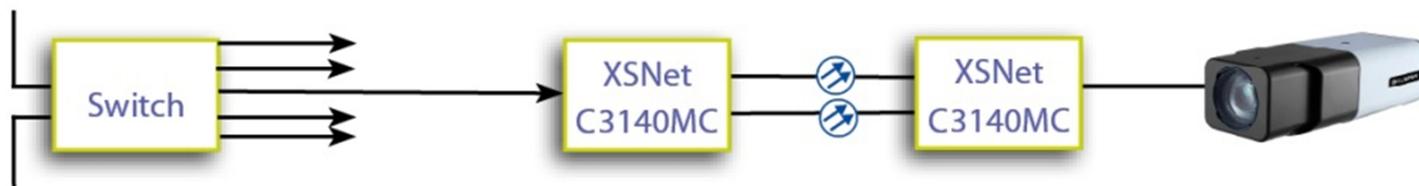
The XSNet™ C3100MC series offers fully operational 10 Mb/s or 100 Mb/s connections over fiber in accordance with IEEE 802 requirements.

The C3100MC family offers the possibility to select half-duplex or full-duplex mode over the optical FX port. In full-duplex mode the system can span up to 20 km (12.4 miles) over single-mode fiber.



Technical Specifications

XSNet™ C3100MC series



Electrical

Interface(s)	10/100Base-TX, autonegotiation, autosensing, auto-MDI/MDIX
Connector type	RJ-45
Cable type	Twisted pair (Cat 5 or better)
Maximum distance	100 m

Standards

IEEE 802.3i	10Base-T specification
IEEE 802.3u	100Base-TX and 100Base-FX specification
IEEE 802.3x	802.3x full-duplex operation

Status LEDs

LED status indicator

PWR1, 2	On = power1, power2 on
FAULT	Off = port and power redundant system normal On = port or power redundancy failure
100	On: speed = 100 Mb/s Off: speed = 10 Mb/s
LFP	Off = LFP function disabled On = LFP function enabled
LNK/ACT	Top LED = TX port; bottom LED = FX port On = valid connection; blink = activity; off = no connection
FDX/COL	Top LED = TX port; bottom LED = FX port On = full-duplex; blink = collision; off = half-duplex

Environmental

Operating temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Storage temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Relative humidity	5% to 95% with no condensation

Powering

Power consumption	4.32 W maximum
Power connector	Redundant terminal block with configurable alarm contact
Input voltage range	10 to 48 Vdc

Mechanical

Dimensions (h x w x d)	135 x 50 x 110 mm (5.3 x 2.0 x 4.3 in)
Weight	0.8 kg (1.7 lbs)
Housing	DIN rail mounting

Technical Specifications

XSNet™ C3100MC series

Optical

	XSNet C3110MC	XSNet C3140MC	XSNet C3150MC/A	XSNet C3150MC/B
Fiber type	2x MM (62.5)	2x SM (09)	1x SM (09)	1x SM (09)
Interface(s)	100Base-FX full-duplex or half-duplex selectable			
TX/RX wavelength	1310 nm	1310 nm	1310 nm/1550 nm	1550 nm/1310 nm
Link length	2 km	20 km	20 km	20 km
Connector type	Dual SC	Dual SC	SC	SC

Ordering information

Models	Description	Fiber type
XSNet™ C3110MC	10/100Base-TX to 100Base-FX hardened media converter	2xMM
XSNet™ C3140MC	10/100Base-TX to 100Base-FX hardened media converter	2xSM
XSNet™ C3150MC/A	1-Fiber 10/100Base-TX to 100Base-FX hardened media converter (TX = 1310 nm; RX = 1550 nm)	1xSM
XSNet™ C3150MC/B	1-Fiber 10/100Base-TX to 100Base-FX hardened media converter (TX = 1550 nm; RX = 1310 nm)	1xSM

Recommended (hardened) power supply: PSR 12 DC



The quality management system used in the development, production, sales, and support of this product is ISO 9001:2008 certified by LRQA.

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