



QP - 212 series

Media Converter

Gigabit Media Converter

100BaseT to 1000BaseSX/LX

Description

The Gigabit media converter is designed to bridge a 100Base-TX signal to a 100Base-FX signal. It's used to extend the connection distance between two Fast Ethernet Twisted-pair devices via fiber cable transparently with no performance degradation.

The converter is based on switching hub design. It's supported Auto-negotiation & flow control on Twisted-pair port and provided SC connector for Single-mode fiber.

Features

- Compliant with IEEE 802.3ab 1000BaseT and IEEE 802.3z 1000BaseSX/LX Gigabit Ethernet Standards.
- One 1000BaseT Gigabit Ethernet TP Port and One 1000BaseSX/LX Gigabit Ethernet Fiber Port.
- One 1000BaseSX/LX Gigabit Fiber Port can support either Multi or Single Mode.
- TP Port can support Full-Duplex, Auto-MDI/MDI-X and Auto-Negotiation.
- Diagnostic LED Indications.
- Multiple Fiber Connectors.
- Providing 19" Converter Chassis for up to 16 slots with redundant power supply for optional expansion use.

Specifications

Standards

- IEEE 802.3ab 1000BaseT
- IEEE 802.3z 1000BaseSX/LX
- IEEE 802.3x Flow Control

Number Of Ports

- 1 1000BaseT with RJ-45

Connector

- 1 1000BaseSX/LX with Fiber Connector (Multi/Single Mode, SC Connector)

Data Transfer Rate

- 2000Mbps/Full-Duplex

Transmission Media

- TP: 1000BaseT Cat. 5, 5E, 6 UTP/STP, up to 100 m
- 1000BaseSX:
50/125µm Multi Mode Fiber optic cable, up to 220 m
62.5/125µm Multi Mode Fiber optic cable, up to 550 m
- 1000BaseLX:
9/125µm Single Mode Fiber optic cable

Led Indicators

- Per Port:
(TX): Link, TX
(FX): Link, RX
- Per Unit: Power

Power Requirement

- DC 5V/2A

Power Consumption

- 10 Watts (Max)

Dimensions

- 102 × 74 × 22 mm (L x W x H)

Weight

- 240 g

Operating Temperature

- 0°C~60°C

Store Temperature

- -10°C~90°C

Humidity

- 10%~90% RH (Non-condensing)

Certifications

- FCC Class A, CE





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Available Models	
QP-212C	1000BaseT to 1000BaseSX, MM, SC
QP-212C10	1000BaseT to 1000BaseLX, SM 10 km, SC
QP-212C20	1000BaseT to 1000BaseLX, SM 20 km, SC
QP-212C30	1000BaseT to 1000BaseLX, SM 30 km, SC
QP-212C40	1000BaseT to 1000BaseLX, SM 40 km, SC
QP-212C60	1000BaseT to 1000BaseLX, SM 60 km, SC
QP-212C80	1000BaseT to 1000BaseLX, SM 80 km, SC
QP-212C100	1000BaseT to 1000BaseLX, SM 100 km, SC
QP-212L	1000BaseT to 1000BaseSX, MM, LC
QP-212L10	1000BaseT to 1000BaseLX, SM 10 km, LC
QP-212L20	1000BaseT to 1000BaseLX, SM 20 km, LC
QP-212L40	1000BaseT to 1000BaseLX, SM 40 km, LC
QP-212L60	1000BaseT to 1000BaseLX, SM 60 km, LC

Model Name	Wavelength	Media	Distance	TX Power (dBm)	RX Sensitive (dBm)	Power Budget (dBm)
QP-212C	850	MMF	220/550m	-9.5 ~ -4	Max. -18	8.5
QP-212C10	1310	SMF	10 km	-9.5 ~ -3	Max. -20	10.5
QP-212C20	1310	SMF	20 km	-9.5 ~ -3	Max. -20	10.5
QP-212C30	1310	SMF	30 km	-9.5 ~ -3	Max. -20	10.5
QP-212C40	1550	SMF	40 km	-4 ~ +1	Max. -23	19
QP-212C60	1550	SMF	60 km	0 ~ +5	Max. -23	23
QP-212C80	1550	SMF	80 km	0 ~ +5	Max. -23	23
QP-212C100	1550	SMF	100 km	0 ~ +5	Max. -30	30
QP-212L	850	MMF	220/550m	-9.5 ~ -4	Max. -17	7.5
QP-212L10	1310	SMF	10 km	-9.5 ~ -3	Max. -20	10.5
QP-212L20	1310	SMF	20 km	Min. -7	Max. -23	16
QP-212L40	1550	SMF	40 km	Min. -3	Max. -27	24
QP-212L60	1550	SMF	60 km	Min. -5	Max. -27	22