

AVMSP Series

User Manual

MSP 209 Gigabit Ethernet Media Converter



RGBlink Science & Technology Co., Ltd.

The pictures and data in the user manual are consult only, if there is fluctuation, according to the real object please!

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1.0 Overview

MSP 209 supports one channel media conversion between 1000Base-T and 1000Base-LX through SC type interface. MSP 209-GX00/ MSP 209-GX01 , this empowers the installers the flexibility in fiber-optic networking. To centralize the fiber-optic network installation, the MSP 209-GX00/ MSP 209-GX01 can be used as standalone units or as a slide-in module to the PLANET intelligent Media Converter Chassis

As MSP 209-GX00/ MSP 209-GX01 fully complies with IEEE802.3ab 1000Base-T and IEEE802.3z 1000Base-LX, using the Gigabit media conversion is quite quick and easy by simply plug and play.

Single mode support up to 10Km by 2 single mode cable; Multi mode support up to 1Km by 2 multi mode cable.

2.0 Checklist

Before you installing the Converter, verify that the package contains the following:

1. The Fiber Media converter.
2. AC Power Cord.
3. This User's Manual.

Please notify your sales representative immediately if any of the aforementioned items is missing or damaged.

3.0 LED Description

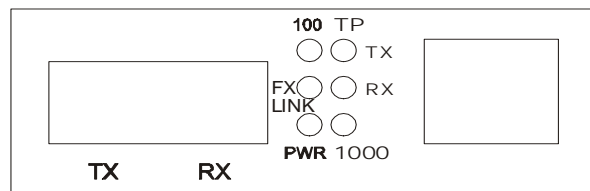


Fig 1 Front View of Gigabit Converter

TP 100	Lit when TP speed is 100Mbps
TP 1000	Lit when TP speed is 1000Mbps
TP TX	Lit when TP data is transmitting
TP RX	Lit when TP data is receiving
FX LINK	Lit when Fiber cable connection is good. Blinks when any FX traffic is present.
PWR	Lit when +5V power is coming up.

4.0 Fiber Technical Specifications

	MSP 209-GX00	MSP 209-GX01-20
Connector type	SC	SC
Fiber type	Multi-mode	Single-mode
Wavelength	850nm	1310nm
Max Distance	224/550m	20Km
Min TX PWR	-11.0dBm	-9.0dBm
Max TX PWR	-6.0dBm	-3.0dBm
Sensitivity	< -18dBm	< -23dBm
Link Budget	7.0dBm	14.0dBm

	MSP 209-GX01-40	MSP 209-GX01-60
Connector type	SC	SC
Fiber type	Single-mode	Single-mode
Wavelength	1310nm	1310nm
Max Distance	40Km	60Km
Min TX PWR	-5.0dBm	-2.0dBm
Max TX PWR	0dBm	2.0dBm
Sensitivity	< -25dBm	< -27dBm
Link Budget	20.0dBm	25.0dBm

	MSP 209-GX01/02-20	MSP 209-GX01/02-40
Connector type	SC	SC
Fiber type	Single-mode	Single-mode
Wavelength	1310/1550nm	1310/1550nm
Max Distance	20Km	40Km
Min TX PWR	-11/-12.0dBm	-6/-8.0dBm
Max TX PWR	-5.0dBm	0dBm
Sensitivity	< -22dBm	< -25dBm
Link Budget	11.0dBm	19/17.0dBm

	MSP 209-GX01/02-80	MSP 209-GX01/02-100
Connector type	SC	SC
Fiber type	Single-mode	Single-mode
Wavelength	1490/1550nm	1490/1550nm
Max Distance	80Km	100Km
Min TX PWR	-3.0dBm	-1.0dBm
Max TX PWR	3.0dBm	3dBm
Sensitivity	< -26dBm	< -26dBm
Link Budget	23.0dBm	25.0dBm

5.0 Installing the Converter

1. Attach fiber cable from the Converter to the fiber network.. The fiber connections must be matched: transmit socket to receive socket.
2. Attach a UTP cable from the TP network device to the RJ45 port on the Converter.
3. Connect the power cord to the Converter and check that the Power LED lights up. The TP Act and FX Act LEDs will light when all the cable connections satisfactory.

6.0 Technical Specifications

The Converter conforms to the following standards:

Standards: IEEE 802.3z/AB 1000Base-T
1000Base-SX/LX

UTP Cable: Cat.5e or Cat.6 cable and up to 100m.

Fiber Cable:

1000SX: 50/125, 62.5/125 μ m multi-mode

1000LX: 9/125 μ m single-mode.

Data Transfer Rate:

2000Mbps for full-duplex at 1000Mbps speed.

LED Indicators:

TP TX,RX, , 100, 1000

Power, FX LINK

TP Flow Control: NWay auto-negotiation

Fiber Flow Control: NWay at full-duplex mode

Power Requirement: 5VDC, 2A

Ambient Temperature: 0 ~ 50 $^{\circ}$ C

Humidity: 5% ~ 90%

Dimensions: 26 \times 71 \times 93mm (H \times W \times D)