COMTROL®

ROCKETLINX MP1204-XT

QUICK INSTALLATION GUIDE

2000641 Rev A | Release Date - November 2017

INTRODUCTION

The RocketLinx MP1204-XT is twelve port managed industrial switch that provides:

- Eight 10/100/1000BASE-T PoE (802.3af/at) ports
- Four 100/1000 SFP ports

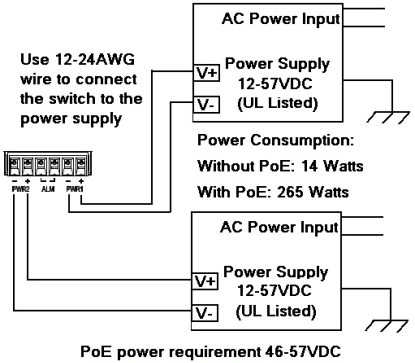
The MP1204-XT provides features needed for network control in an industrial network environment. See the Comtrol website (www.comtrol.com) for detailed product specifications and the product warranty.

INSTALLATION OVERVIEW

You can use the following information to install the MP1204-XT. If you need more detailed information, you can refer to the *RocketLinx MP1204-XT User Guide* on the download site (http://downloads.comtrol.com), which contains detailed installation and configuration information.

Connect the Power Terminal Block

The MP1204-XT provides redundant power inputs (PWR 1/2), which supports reverse polarity protection, and accepts a positive or negative powersource (12V – 57V). However, PWR1 and PWR2 must apply to the same mode.



Note: *Power should be disconnected from the power supply before connecting it to the switch. Otherwise, your screwdriver blade can inadvertently short your terminal connections to the grounded enclosure.*

1. Insert the positive and negative wires into PWR+ and PWR- contacts. You can connect a single power supply or both power supplies depending on your requirements.
2. Tighten the wire-clamp screws to prevent the wires from coming loose.

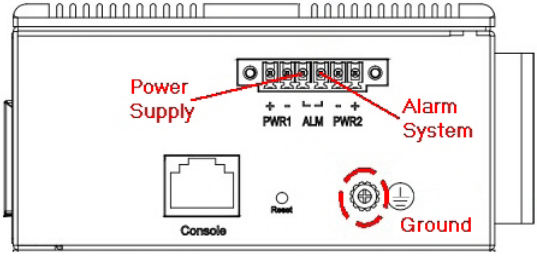
Electrical Specifications		Value
Power Input Voltage PWR1/PWR2	IEEE 802.3af	46-57/3.1A (Max)
	IEEE 802.3at	50-57VDC/5.2A (Max)
Maximum PoE Power/Port	IEEE 802.3af	15.4W
	IEEE 802.3at	30W
Power Budget	PWR1/PWR2	240W
Power Consumption	Without PD load (Max)	14W
	PoE with PD load (Max) IEEE 802.3af IEEE 802.3at	265W with 240W PSE 2.92A @ 48VDC [134W] 4.89A @ 53VDC [247W]

ALARM RELAY AND GROUND

The alarm relay output contacts are in the middle of the DC terminal block connector as shown in the figure below.

The alarm relay output is “Normal Open”, and it will be closed when detected any predefined failure such as power failures or Ethernet link failures.

The relay contacts have current carrying capacity of 0.5A @ 24 VDC.



ETHERNET INTERFACE

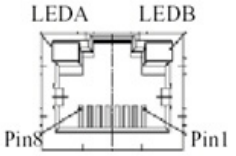
The switch provides two types of Ethernet interfaces: electrical (RJ45) and optical (SFP) interfaces.

Connecting RJ45 Cables

To connect the MP1204-XT to a PC, use straight-through or cross-over CAT 5 or higher Ethernet cables. To connect the MP1204-XT to an Ethernet device, use UTP (Unshielded Twisted Pair) or STP (Shielded Twisted Pair) CAT 5 or higher Ethernet cables.

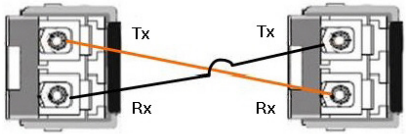
The pin assignment of RJ45 connector is shown in the following figure and table.

Pin	Assignment	PoE Assignment
1,2	TxRx+ and TxRx-	Positive Vport
3,6	TxRx+ and TxRx-	Negative Vport
4,5	TxRx+ and TxRx-	N/A
7,8	TxRx+ and TxRx-	N/A



Connecting SFPs

The SFP accepts LC connector fiber transceivers and supports both 100/1000 Mbps fiber speed connections.



Comtrol recommends using Comtrol-approved SFP mini GBIC transceivers.

Note: *Never attempt to view optical connectors that might be emitting laser energy.*

Do not power up the laser product without connecting the laser to the optical fiber and putting the dust cover in position, as laser outputs will emit infrared laser light at this point.

Cross-connect the transmit channel at each end to the receive channel at the opposite end as illustrated in the figure.

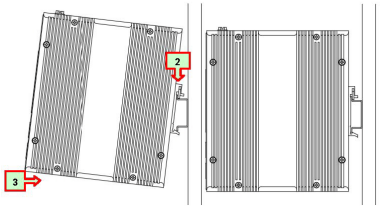
Attention

This is a Class 1 Laser/LED product. Do not stare into the Laser/LED beam.

DIN RAIL MOUNTING

Use the following procedure to mount the MP1204-XT on a DIN rail:

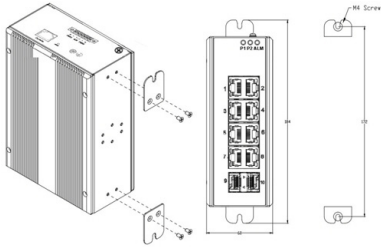
1. Screw the DIN clip with screws in the accessory kit.
2. Hook the unit onto the DIN rail.
3. Push the bottom of the unit towards the DIN rail until it locks in place.



WALL MOUNTING

Use the following procedure to mount the MP1204-XT on a wall or panel:

1. Screw the wall-mount brackets with screws in the accessory kit.
2. Mount it to a wall or panel.



CONSOLE CONNECTION

The Console port supports local management by using a terminal emulator or a computer with terminal emulation software, such as puTTY. The console port is located below the power connector.

- Baud rate: 115200bps
- Data bits: 8
- Stop bit:1
- Parity: None
- Flow control: None

Connect the RJ45 (male) connector to the MP1204-XT console port and connect the RS-232 DB9 (female) connector cable to a COM serial port.

CONFIGURING THE IP ADDRESS

You can use the console port or a telnet connection to configure the IP address

Using Telnet to Configure the IP Address

You must have the MP1204-XT connected to your network.

1. Open the command prompt and enter **telnet 192.168.250.250**.
2. Enter **admin** as the Username and press the **Enter** key.
3. Enter **admin** as the Password and press the **Enter** key.
4. Enter **enable** and press the **Enter** key.
5. Enter **configure terminal** and press the **Enter** key.
6. Enter **interface vlan 1** and press the **Enter** key.
7. Enter **ip address** ###.###.###.### ###.###.###.### (the IP address – space – subnet mask) and press the **Enter** key.
8. Move the Ethernet cable to the appropriate network.
9. Close the telnet session.
10. Save the new IP address to the flash, enter **telnet** and the new IP address.
11. Enter the **Username** and **Password**.
12. Enter **copy running-config startup-config** and press the **Enter** key.

```
Username: admin
Password:
# enable
# configure terminal
(config)# interface vlan 1
(config-if-vlan)# ip address 10.0.0.203 255.255.0.0
```

```
Username: admin
Password:
# copy running-config startup-config
Building configuration...
% Saving 1610 bytes to flash:startup-config
% If need reboot must wait for 3~5 seconds.
#
```

You can now open the MP1204-XT web interface to configure it to your environment.

Using the Console Port to Configure the IP Address

Connect the console cable as previously described. The following example illustrates using puTTY.

1. Start the terminal emulation software and configure the port as previously described.
2. You may need to press **Enter** to get the Username prompt.
3. Enter **admin** as the Username and press the **Enter** key.
4. Enter **admin** as the Password and press the **Enter** key.
5. Enter **enable** and press the **Enter** key.
6. Enter **configure terminal** and press the **Enter** key.
7. Enter **interface vlan 1** and press the **Enter** key.
8. Enter **ip address** ###.###.###.### ###.###.###.### (the IP address – space – subnet mask) and press the **Enter** key.
9. Enter **exit** and press the **Enter** key
10. Enter **exit** and press the **Enter** key.
11. Enter **copy running-config startup-config** and press the **Enter** key.

```
Username: admin
Password:
# enable
# configure terminal
(config)# interface vlan 1
(config-if-vlan)# ip address 10.0.0.203 255.255.0.0
(config-if-vlan)# exit
(config)# exit
# copy running-config startup-config
Building configuration...
% Saving 1610 bytes to flash:startup-config
% If need reboot must wait for 3~5 seconds.
#
```

You can now open the MP1204-XT web interface to configure it for your environment

COMTROL CUSTOMER SERVICE

You can use one of the following methods to contact Comtrol.

Contact Method	Web Address or Phone Number
Support	http://www.comtrol.com/support
Downloads	http://downloads.comtrol.com
Website	http://www.comtrol.com
Phone	+1 763.957.6000