Antaira Technologies

LMP-1604G-4XS-bt Series

16-Port Industrial Gigabit IEEE 802.3bt PoE++ Managed Ethernet Switch, with 12*10/100/1000T (90W/Port) and 4*1G/2.5G/10G SFP+ Slots; 48~55VDC Power Input

Quick Installation Guide

Version 1.0
(May 2025)



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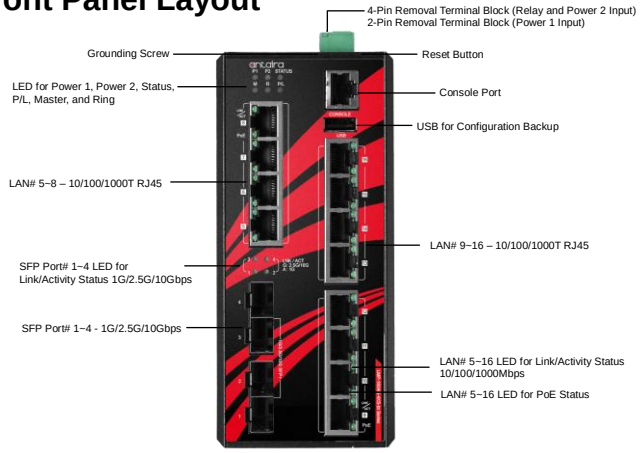
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Package Check List

The package contains the following items:

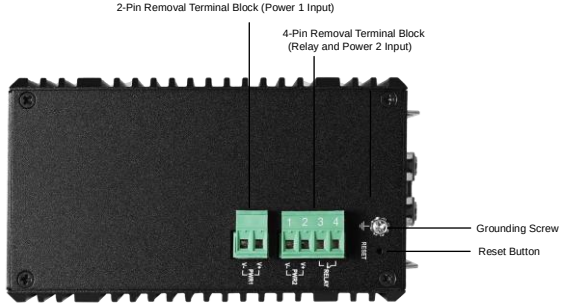
- 1 – Quick installation guide
- 1 – LMP-1604G-4XS-bt(-T)
- 1 – Wall mounting bracket set with screws
- 1 – DC cable –18 AWG & DC jack 5.5 x 2.1mm
- 1 – Dust cover set
- 1 – RJ45 to DB9 serial console cable

Front Panel Layout



Top Panel View

LMP-1604G-4XS-bt series top panel is equipped with a 4-pin removal terminal block connector (Relay and Power 2 Input) and a 2-pin removal terminal block connector (Power 1 Input) (48~55VDC).



Product Overview

System Interface/Performance

- All RJ45 ports support the auto MDI function
- Embedded 12*10/100/1000T RJ45 ports (90W/Port) and 4*1G/2.5G/10G SFP+ slots
- Store-and-forward switching architecture
- 32K MAC address table
- Power line EFT protection: 2,000VDC; Ethernet ESD Protection: 6,000VDC

Power Input & Connection

- DC 48 to 55V redundant power, with a 4-Pin Removal Terminal Block (Relay and Power 2 Input) and a 2-Pin Removal Terminal Block (Power 1 Input)
- It is recommended to use a UL listed industrial power supply

Operating Temperature

- Standard operating temperature model: -10°C to 65°C
- Extended operating temperature model: -40°C to 75°C

Case/Installation

- IP30 protection
- DIN-Rail and wall mount design

LED Indicators

LED	Color	Description	
Power 1	Green	On	Power input 1 is active
		Off	Power input 1 is inactive
Power 2	Green	On	Power input 2 is active
		Off	Power input 2 is inactive
Status	Green	On	No event happened
	Red	On	Event happened by software setting
		Flashing	1. System booting 2. Firmware upgrade or Backup configuration to USB (for Reset Button)
	Green / Red	Flashing	Reset to default (for Reset Button)
Master	Green	On	ERPS Owner Mode (Ring Master) is ready
		Off	ERPS Owner Mode is not active
Ring	Green	On	Ring Network is active
		Flashing	Ring works abnormally or misconfigure
		Off	Ring Network is not active
PoE Load (max 360W)	Red / Blue	Off	The current overall PoE output power divided by power budget is ≤ 50%
	Blue	ON	The current overall PoE output power divided by power budget is 51% ~ 70%
	Red	ON	The current overall PoE output power divided by power budget is 71% ~ 90%
		Flashing	The current overall PoE output power divided by power budget is 91% ~ 100%
SFP Port 1~4 LINK/ACT	Green	On	Connected to network, 2.5G/10Gbps
		Flashing	Networking is active
		Off	Not connected to network
	Amber	On	Connected to network, 1Gbps
		Flashing	Networking is active
		Off	Not connected to network
LAN Port 5~16 (Upper LED)	Green	On	Connected to network, 1Gbps
		Flashing	Networking is active
		Off	Not connected to network
	Amber	On	Connected to network, 10/100Mbps
		Flashing	Networking is active
		Off	Not connected to network
LAN Port 5~16 (Lower LED)	Green	On	IEEE 802.3bt connection (Single Signature PD Class 5~8/Dual Signature PD Channel Class 1~5)
		Flashing	Port link is recovered from failure event
		Off	No powered-device attached or power supplying fails
	Amber	On	IEEE 802.3af/at connection (Single Signature PD Class 0~4)
		Flashing	Port link is recovered from failure event
		Off	No powered-device attached or power supplying fails
	Green /Amber	Alternating Flashing	The port is trying to recover from event failure (Frequency: 20 secs/time)

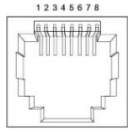
Quick Installation

Ethernet Ports

RJ45 Ports (Auto MDI)

All RJ45 ports are auto-sensing for 10BASE-T, 100BASE-TX or 1000BASE-T device connections. Please follow the wiring pin assignment table below for Ethernet port installation.

RJ45 Ethernet Port Pin Outs				
Pins	**T568A Color**	**T568B Color**	**10BASE-T, 100BASE-TX**	**1000 BASE-T**
Pin 1	white/green stripe	white/orange stripe	Rx+	TP0+
Pin 2	green solid	orange solid	Rx-	TP0-
Pin 3	white/orange stripe	white/green stripe	Tx+	TP1+
Pin 4	blue solid	blue solid	unused	TP2+
Pin 5	white/blue stripe	white/blue stripe	unused	TP2-
Pin 6	orange solid	green solid	Tx-	TP1-
Pin 7	white/brown stripe	white/brown stripe	unused	TP3+
Pin 8	brown solid	brown solid	unused	TP3-



Power Input Wiring

Please follow the steps below to insert the power wire:

1. Insert the positive and negative wires into the **PWR1 (V1+, V1-)** and **PWR2 (V2+, V2-)** contacts on the terminal block connector as shown below in *Figure 1*.
2. Tighten the wire-clamp screws to prevent the wires from loosening, as shown below in *Figure 2*.

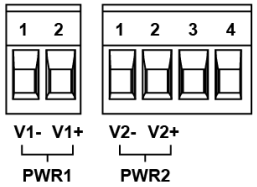


Figure 1

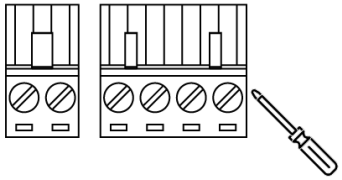


Figure 2

Industrial Switch Mounting

DIN-Rail Mounting

The DIN-Rail bracket is pre-installed on the industrial Ethernet switch from the factory. Please refer to *Figure 3* for a DIN-Rail bracket installation reference. Follow the steps below for installing the industrial switch on the DIN-Rail track:

1. Insert the top of the DIN-Rail on to the track as shown below in *Figure 4.*
2. Lightly pull down the bracket on to the rail as shown below in *Figure 5.*
3. Check if the bracket is mounted tightly on the rail.
4. To remove the industrial Ethernet switch from the rail, do the opposite from the steps above.



Figure 3



Figure 4

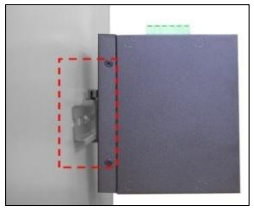


Figure 5

Wall Mounting

Follow the steps below to mount the industrial Ethernet switch using the wall mounting bracket as shown below in *Figure 6*.

1. Remove the DIN-Rail bracket from the industrial Ethernet switch by loosening the screws.
2. Place the wall mounting brackets on the top and bottom of the industrial Ethernet switch.
3. Use the screws to screw the wall mounting bracket on the industrial Ethernet switch.
4. Use the hook holes at the corners of the wall mounting bracket to hang the industrial Ethernet switch on the wall.
5. To remove the wall mount bracket, do the opposite from the steps above.



Figure 6

Field Maintenance and Service

- If the device requires servicing of any kind, the user is required to disconnect and remove it from its mounting. The initial installation should be done in a way that makes this as convenient as possible.
- Voltage/power lines should be properly insulated as well as other cables. Be careful when handling them so as to not trip over.
- Do not under any circumstance insert foreign objects of any kind into the heat dissipation holes located in the different faces of the device. This may not only harm the internal layout, but might cause harm to user as well.
- Do not under any circumstance open the device for any reason. Please contact your dealer for any repair needed or follow the instructions within the manual.

***WARNING: When connecting PoE ports of an Ethernet Switch to non-standard Ethernet ports of a device, such as those with GND or low voltage surge protection and other alterations to IEEE 802.3 standard, DAMAGE MAY OCCUR to either or both devices. Devices with ports like these should be connected to non-PoE ports on the switch.**

Warranty Policy

Warranty Conditions

Products supplied by Antaira Technologies are covered in this warranty for sub-standard performance or defective workmanship. The warranty is not, however, extended to goods damaged in the following circumstances:

(a) Excessive forces or impacts
(b) War or an Act of God: wind storm, fire, flood, electric shock, earthquake
(c) Use of unqualified power supply, connectors, or unauthorized parts/kits
(d) Replacement with unauthorized parts

RMA and Shipping Costs Reimbursement

Customers shall always obtain an authorized "RMA" number from Antaira before shipping the goods for repair or replacement.

- Within the warranty period (based on the invoice date), all parts and labor are free of charge to the customers.
- Customers are responsible for the cost of parts and labor, if the products are out of warranty.
- For RMA service, customers are responsible for the shipping expense for shipping the RMA unit(s) to Antaira. Antaira is responsible for the shipping expense via a ground service for the return repair/replace unit(s) back to customers.

Limited Liability

Antaira would not be held responsible for any consequential losses from using Antaira's product.

Warranty Period

5-Year Warranty

Antaira's Customer Service and Support

- Antaira's Technical Service & Support Centers:
  + 714-671-9000 (Antaira US Headquarter)
  + 48-22-862-88-81 (Antaira Europe Office)
  + 886-2-2218-9733 (Antaira Asia Office)

- Antaira's Web Sites & Repair/Support Emails:
  www.antaira.com / support@antaira.com
  www.antaira.eu / info@antaira.eu
  www.antaira.com.tw / info@antaira.com.tw

***Any changes will be announced on the Antaira website.**