# Antaira Technologies

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*making connectivity simple...*

## LMP-C602G-SFP-bt-V2 Series
6-Port Compact Industrial Gigabit IEEE 802.3bt PoE++ Light Layer 3 Managed Ethernet Switch, 4*10/100/1000TX (90W/Port) and 2*100/1000 SFP Slots

## Quick Installation Guide
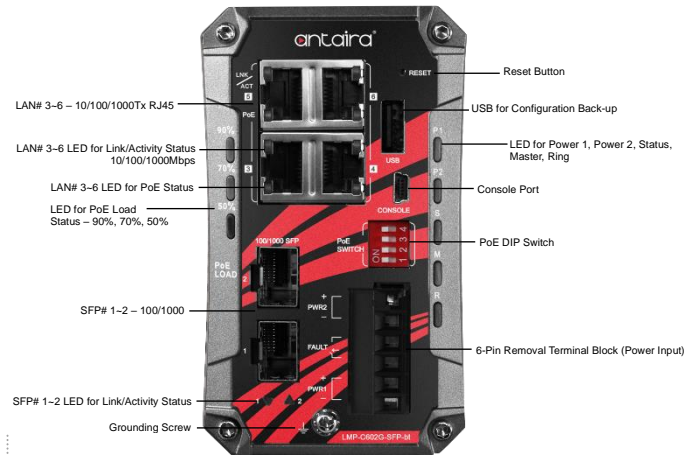**Version 1.0**
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## Package Checklist

The package contains the following items:
- 1 – Quick installation guide
- 1 – LMP-C602G-SFP-bt(-T)-V2
- 1 – Wall mounting bracket set with screws
- 1 – DC cable –18 AWG & DC jack 5.5 x 2.1mm
- 1 – Dust cover set
- 1 – Mini-USB B type male to DB9 RS232 female cable

## Front Panel Layout



- LAN# 3~6 – 10/100/1000Tx RJ45
- LAN# 3~6 LED for Link/Activity Status 10/100/1000Mbps
- LAN# 3~6 LED for PoE Status
- LED for PoE Load Status – 90%, 70%, 50%
- SFP# 1~2 – 100/1000
- SFP# 1~2 LED for Link/Activity Status
- Grounding Screw
- Reset Button
- USB for Configuration Back-up
- LED for Power 1, Power 2, Status, Master, Ring
- Console Port
- PoE DIP Switch
- 6-Pin Removal Terminal Block (Power Input)

## Product Overview

### System Interface/Performance
- All RJ45 ports support the auto MDI/MDI-X function
- Embedded 4*10/100/1000Tx (90W/Port) RJ45 ports and 2*100/1000 SFP slots
- Store-and-Forward switching architecture
- 8K MAC address table
- Supports 9.6Kbytes jumbo frame
- 4Mbits memory buffer

### Power Input & Connection
- DC 48 to 55V redundant power, with a 6-pin removal terminal block
- Max. current: 4.1A
- Max. PoE output: 240W
- Relay contact: 24VDC, 1A resistive
- It is recommended to use a UL listed industrial power supply
- For bt PoE application(s), the recommended power input should be not less than 53VDC

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

### Case/Installation
- IP40 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 by software setting |
| | Red | On | System booting / Event happened by software setting |
| Master | Green | On | ERPS Owner Mode (Ring Master) is ready |
| | | Off | ERPS Owner Mode is not active |
| Ring | Green | On | ERPS Ring Network is active |
| | | Flashing | ERPS Ring works abnormally or misconfigure |
| | | Off | ERPS Ring Network is not active |
| PoE Load | - | Off | No PD connect |
| | Green | On | PoE Load ≤50% |
| | Green & Blue | On | PoE Load 51~70% |
| | Green, Blue, & Red | On | PoE Load 71~90% |
| | Green, Blue, & Red (Red flashing) | On | PoE Load 91~100% |
| SFP Port 1~2 | Green | On | Connected to network, 1Gbps |
| | | Flashing | Networking is active |
| | | Off | Not connected to network |
| | Amber | On | Connected to network, 100Mbps |
| | | Flashing | Networking is active |
| | | Off | Not connected to network |
| LAN Port 3~6 LNK/ACT (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 3~6 PoE Mode (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) |

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# Quick Installation

## Ethernet Ports

### RJ45 Ports (Auto MDI/MDI-X)
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(X) |
| 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- |
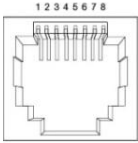
## Power Input Wiring
Please follow the steps below to insert the power wire:
1. Insert the positive and negative wires into the **PWR1 (V1+, V1-)** and **PWR2 (V2+, V2-)** contacts on the terminal block connector as shown below in *Figure 1*.
2. Tighten the wire-clamp screws to prevent the wires from loosening, as shown below in *Figure 2*.
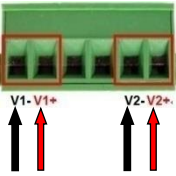
Figure 1          Figure 2

## 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.
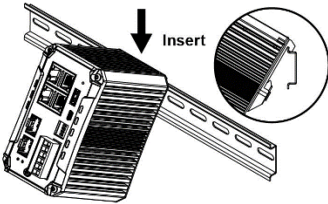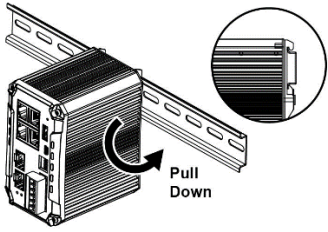
Figure 3

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.

# 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:
  + 844-268-2472        (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:
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**\*Any changes will be announced on the Antaira website.**