PCI Express Power-over-Ethernet Card,
4-port 2.5GbE, 802.3at/af Compliant, Low-profile, RoHS

GPOE-4P2

Quick Installation Guide
Version 1.0

March 2, 2023

Package List

GPOE-4P2 package includes the following items:
- 1 x GPOE-4P2 PCIe Power-over-Ethernet card
- 1 x Full height bracket
- 1 x QIG (Quick Installation Guide)

Specifications

- Interface: PCI Express® x1
- Ethernet:
  Intel® I225 controllers
  9kB jumbo frame
  IEEE 802.3az, IEEE1588
- Power Input:
  12 V ~ 24 V DC input
  1 x Internal DC input connector (2x3 pin)
  1 x Internal DC input connector (1x4 pin)
  CAUTION! Use one power input only at a time.
- PoE Capability:
  LAN1 & LAN2: IEEE 802.3at with 30W / 52V per port
  LAN3 & LAN4: IEEE 802.3af with 15.4W / 52V per port
  (support a total of 90 watts at full load)
- Operating Temperature: 0°C ~ 60°C
- Storage Temperature: -10°C ~ 70°C
- Operating Humidity: 5% ~95%, non-condensing
- Dimensions: 158 mm x 69 mm
- Weight: 110g
- Safety: CE/FCC compliant

Ordering Information

- **GPOE-4P2-R10:**

  PCI Express Power-over-Ethernet card, 4-port 2.5GbE, 802.3at/af compliant, low profile, and RoHS

- **32102-011500-100-RS:**

  Power cable, 150mm, 18AWG, (A) two 4-pin MOLEX, p=5.08; (B) one 4-pin MOLEX, p=5.08; RoHS

- **32102-044900-100-RS:**

  Power cable, 100mm, 20AWG, (A) two 4-pin MOLEX, p=5.08; (B) one 6-pin connector, p=4.2; RoHS

Connector Pinouts

CN1: Internal power input connector (6-pin, p=4.2 mm)

Pin	Description	Pin	Description
1	Power in	4	GND
2	Power in	5	GND
3	Power in	6	GND
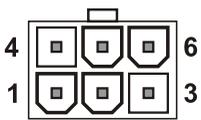
J3: Internal power input connector (4-pin, p=5.08 mm)

Pin	Description	Pin	Description
1	Power in	3	GND
2	GND	4	N/C

solder side
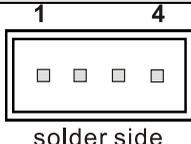
PLAN1: External RJ-45 2.5GbE connectors

Pin	Description	Pin	Description
1	P0	5	N2
2	N0	6	N1
3	P1	7	P3
4	P2	8	N3
LED	Description	LED	Description
A	Off: 100 Mb/s Green: 2.5 Gb/s Orange: 1 Gb/s	B	On: linked Blinking: data is being sent/received
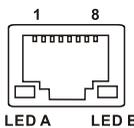
All the drivers and utility for the GPOE-4P2 are available on IEI Resource Download Center. Type GPOE-4P2 and press Enter to find all the relevant software, utilities, and documentation. To install software from the downloaded ISO file, mount the file as a virtual drive to view its content.

**IEI Resource Download Center**

https://download.ieiworld.com

LED Indicators

When installing multiple GPOE-4P2 cards in one system, the ID of each card is indicated by the two LED indicators on the I/O panel as described below.

Card ID	LED	Card ID	LED
Card 1	● Red ● Red	Card 5	● Red ○ Off
Card 2	● Red ● Green	Card 6	○ Off ● Green
Card 3	● Green ● Red	Card 7	○ Off ● Red
Card 4	● Green ● Green	Card 8	● Green ○ Off

LED indicators
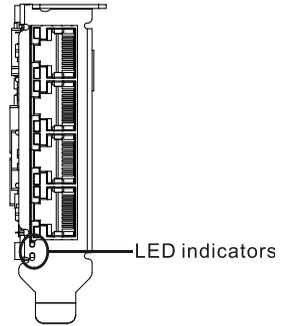
Board Layout & Connector Locations

24.23

64.41

59.61

2.40

32.20

59.25

PLAN1

159.73

157.63

J3   CN1

3.50

(Unit: mm)

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