VIOP-GE74

Main Features

- In-vehicle and machine vision applications
- 4-Port independent GbE with PoE+ function
- 2KV isolation for LAN signal and power
- PoE on/off and power watt monitoring per port
- Two ultra-fast NVMe storage media for RAID0/1 configuration
- Compact size PCIe card for easy and quick install
- 9K-byte Jumbo frame and PTP (IEEE 1588) support
- Compliant with E-Mark, CE/FCC ClassA and MIL-STD-810G for anti-vibration/shock
- Tough environment with operating temp -30~85℃

Product Overview

With built-in Intel® 82580EB controller, GE74 supports up to 4 independent GbE with 1000Mbps satisfying a uncompressing video stream at 4K resolutions in high frame-rate used on AI-aided secure surveillance, auto-inspection/machine vision in smart factory, etc. applications. VIOP-GE74 is equipped with an excellent protection of OCP/OVP and up to 2KV isolation of data and power Ethernet to avoid any transient surge or damage to LOM system. Besides, there are two untra-fast media NMVe SSD to configure RAID0/1 for data integrity if installed on ATC 8110 product. To run at harsh environment is more and more important, GE74 is compliant with military MIL-STD to sustain the vibration and shock and the operating temperature can reach up to -30~85℃.

Specifications

PCI Express
- PCIe 3.0 x4 lane compliant
- Extra proprietary PCIe slot for NVMe storage expansion
- Power draw from PCIe slot in default

Ethernet
- 4-Port RJ45 independent 10/100/1000 Mbit/s
- IEEE 802.3/802.3u/802.3ab and IEEE802.3x
- 9K-byte jumbo frame
- IEEE 802.1AS/IEEE 1588 (PTP) support
- GbE controller: Intel® 82580EB

Power over Ethernet (PoE)
- IEEE 802.3af/at compliant
- 25W per port in max., 4-port total at 52W PSE
- PoE on/off and power watt monitoring

Protection
- OCP & OVP
- 2KV isolation for Ethernet

NVMe Media Storage*
- Form factor: M.2 key-M (2242/2280) slot
- Interface: PCIe 3.0 x2
- Compatible to key M/B+M M.2 PCIe 3.0x4/x2 interface
- 2 x M.2 slot

Environment & Regulation
- Operating temperatures: -30~85℃
- Storage temperatures: -40~85℃
- Damp heat test per EN60068-2-30
- Humidity: IEC60068-2-3, 40C, 95%, 48Hrs
- CE, FCC Class A, E-Mark (pre-installed on ATC 8110)

Mechanics
- Anti-vibration
  - IEC 60068-2-64.2.5G (5~500Hz)
  - Operating: MIL-STD-810G, 514.6C Procedure 3, Category 4
  - Storage: MIL-STD-810G, 514.6E Procedure 1, Category 24
- Anti-shock
  - MIL-STD-810G, 516.6 Procedure I, trucks and semi-trailers=40g
  - Crash hazard: Procedure V, ground equipment=75g
- Dimension: 190mm x 111mm (L x H)
- Net weight: 176g

Ordering Information

- **VIOP-GE74 (P/N: 20V00GE7400X0)**
  4 x RJ45 independent GbE/GigE PCIe 3.0 card, PoE 52W, 2 x NVMe M.2 slot

  * Note: NVMe M.2 storage is valid when GE74 is installed on ATC 8110 1st PCIe slot

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Add-On Modules

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We reserve the right to change specifications and product descriptions at any time without prior notice.
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