



## Main Features

- In-vehicle and machine vision applications
- 4-Port independent GbE with PoE+ function
- 2KV isolation for LAN signal and power line
- PoE on/off and power watt monitoring per port
- Power source either from PCIe slot or extra 12VDC-IN
- Half length 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°C

## Product Overview

With built-in Intel® 82580EB controller, GE64 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-GE64 is equipped with an excellent protection of OCP/OVP and up to 2KV isolation of Ethernet data and power to avoid any transient surge or damage to LOM system. To run at harsh environment is more and more important, GE64 is compliant with military MIL-STD to sustain the vibration and shock and the operating temperature can reach up to -30~85°C.

## Specifications

### PCI Express

- PCIe 3.0 x4 lane compliant
- Half-length in size

### 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 60W PSE
- Power supply drawing from PCIe slot in default (ATC 8110)
- PoE on/off and power watt monitoring
- 4-Pin power connector for extra power supply (12VDC-IN)

### Protection

- OCP & OVP
- 2KV isolation for Ethernet

### SDK for PoE Management

- Interface: USB port
- Win10, Linux 4.x

### Environment & Regulation

- Operating temperatures: -30~85°C
- Storage temperatures: -40~85°C
- 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: 168mm x 111mm (L x H)
- Net weight: 158g

## Ordering Information

- **VTK-GE64 (P/N: 10VK0GE6400X0)**  
4 x RJ45 independent GbE/GigE PCIe 3.0 card, PoE 60W