N-GXE-POE-xx-01 Series

TRANSITION NETWORKS ®

PCIe Gigabit Ethernet Fiber Network Interface Card with PoE+

1000Base-X and 10/100/1000Base-T PoE+

The N-GXE-POE-xx-01 Series Network Interface Card (NIC) provides connectivity to a secure fiber network while also delivering power to a PoE powered device (PD), such as a VoIP phone with a copper UTP interface. It fully complies with all IEEE 802.3z and 1000Base-X standards, providing up to 2000 Mbps full-duplex bandwidth capacity.

Developed to support high-end users, this (2) port NIC has (1) 1000Base-X fiber network interface port (SFP version is 100/1000Base-X) and (1) switched 10/100/1000Base-T port supporting IEEE 802.3at PoE+ power. It is designed to allow a PC to power a VoIP phone, or any other traditional copper powered device, over a secure fiber network. Additionally, the NIC also has the ability to provide traffic switching functions between the copper and fiber ports, even when the PC is in a sleep mode.

Combining the functions of PC connectivity and VoIP phone connectivity into one device saves installation time, expense, and the space of having two devices at the desktop. When the VoIP traffic is filtered and prioritized by third-party devices like an Ethernet switch and the IP phone, this PoE NIC will pass all tagged traffic ensuring users experience a high level of Quality of Service (QoS). VLANs and Prioritization can also be configured at the NIC via Transition Networks' PoE NIC utility software.

Ordering Information

N-GXE-POE-LC-01
 1000Base-SX 850nm multimode LC
 [50/125 um fiber: 550 m/1804 ft.]
 [62.5/125 um fiber: 220 m/722 ft.]
 Link Budget: 8.0 dB
 + 10/100/1000Base-T PoE+ port
 (includes optional low-profile bracket)

N-GXE-POE-SFP-01
 100/1000Base-X Open SFP fiber slot,
 + 10/100/1000Base-T PoE+ port
 (includes optional low-profile bracket)

Optional Accessories (sold separately)

SFP Modules

27246
 Cable assembly, 4 pin Molex to ATX Power Cable Adapter

28582
 4 pin Molex to SATA 15 pin Female Power Adapter

28583
 6" SATA Power Y Splitter Cable Adapter-M/F

N-PoE-CBLKIT
 3 piece cable kit for 12V power input connectivity options
 (Includes 27246, 28582, 28583)

N-POE-EPC
 Ethernet packet controller software utility used for VLAN configuration within the NIC. Free download from transition.com

Network Adapters

Features

- High bandwidth 1000Mbps
- Supports Full-duplex Mode
- Supports IEEE 802.3x Full-Duplex Flow Control
- Supports PCIe x1 bus
- Compliant with PCIe Rev 2.1 Interface
- Supports Jumbo Frames
- Supports High Level VLAN Filtering Function
- IPv6 Capable
- Supports IP headers and TCP/UDP checksum offload
- Wake-on-LAN (WoL) power management
- PXE 2.1 Boot ROM Supported
- ACPI 2.0 Link Status LED for each port
- Driver Support
  - Windows 7
  - Windows 8, 8.1
  - Windows 10
  - Windows Server 2008
  - Windows Server 2012
  - Windows Vista
  - Linux
- Available with a fixed LC port or an open SFP port

Specifications

Standards	IEEE 802.3-2000 IEEE 802.3z IEEE 802.3x IEEE 802.1Q IEEE 802.1p IEEE 802.3ab IEEE 802.3af IEEE 802.3at
MAC Address	8k MAC address table
Max Packet Size	Jumbo Frames, 10k bytes
Jumper Switches	Legacy PoE Energy Efficient Ethernet (EEE) enable/disable
Status LEDs	L/A — Fiber Link/Activity PoE — Power-over-Ethernet RJ-45 Upper Lf — TP Link/Activity/Speed RJ-45 Upper Rt — TP Duplex
Dimensions	Width: 4.8" [121.9 mm] Depth: 6.5" [165.1 mm] Height: 0.9" [22.86 mm]
Power Consumption	1.6 Watts (typical without PoE) 43.6 Watts (typical with PoE)
Voltage input	PCIe 3.3V 12V Peripheral connection for PoE
Power-over-Ethernet	Mode A Power
Environment	Operating: 0°C to 50°C Storage: -15°C to 65°C Humidity: 5% to 95% (non-condensing) Altitude: 0 – 10,000 ft.
Weight	2 lbs. [0.90 kg]
MTBF	Greater than 260,500 MIL-HDBK-217F Hours Greater than 716,375 Bellcore Hours
Certifications	Emission: EN55022 Class B, CE, UL Listed Immunity: EN55024
Warranty	Lifetime

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