

## 1000FX Multi-mode SC Fiber Optic PCI Express Card

### Product Overview

The LevelOne GNC-0111 Fiber Gigabit Ethernet Network Interface Card provides network connectivity within high-speed Fiber-Optic networks. The high bandwidth network interface card provides full-duplex network data speeds of up to 2000Mbps and support an array of advanced network interface functionality.

### High-Speed Network Interface

The GNC-0111 Gigabit Fiber PCI Express Card supports PCI Express-bus architecture for servers that require a high-bandwidth environment. The PCI Express is IEEE 802.3x compliant, providing full-duplex flow control for 2Gbps network data transfer speeds over a 550 meter fiber connection. It also requires less server resources by providing on-board verification of IP headers and TCP/UDP checksums for received data.

### Advanced Networking

The Gigabit Fiber PCI-Express Card provides high-level VLAN filtering and on-board screening of IEEE 802.3Q VLAN tagged Ethernet frames for secured and flexible network.

The GNC-0111 Gigabit Fiber PCI Card further supports a 9K Jumbo Frame Rate, Pre-Boot Execution Environment (PXE), Multi-Boot Agent (MBA), Remote Program Load (RPL) and Bootstrap Protocol (BOOTP).



**GNC-0111**

## Key Features

- High-Speed Fiber-Optic PCI-Express card
- Supports 2Gbps Full-Duplex mode
- Compliant with IEEE 802.1Q VLAN
- Full-Duplex Switching: 550m
- Supports on-board IP header verification and TCP/UDP checksum offload
- Supports Multiple Operating Systems

## Technical Specification

### Network Interface

#### Standards Compliant

IEEE 802.3z Gigabit Ethernet 1000Base-SX/LX  
IEEE 802.3x Full-Duplex Flow Control  
IEEE 802.1Q VLAN

#### Connector

850nm SC multi-mode

#### Fiber Optic Cable and Length

62.5/125µm, 50/125µm Multi-Mode up to 550m  
9/125µm Single-Mode up to 50km

#### Data Transfer Mode/Speed

Full duplex with NWay flow control  
100Mbps speed

#### Bus Slot

PCI-e x1 bus (PCI-e Rev. 1.1 Interface)

#### Diagnostics LEDs

Link/Activity  
Full-duplex Activity

### Physical Specifications

#### Power Requirement

5W  
3.3V DC, 1.5A

#### Operating Parameters

Temperature: 0°C to 50°C  
Humidity: 5% to 90%

#### Dimensions

108mm (L) x 68.5mm (H)

#### Weight

60g

#### Certifications

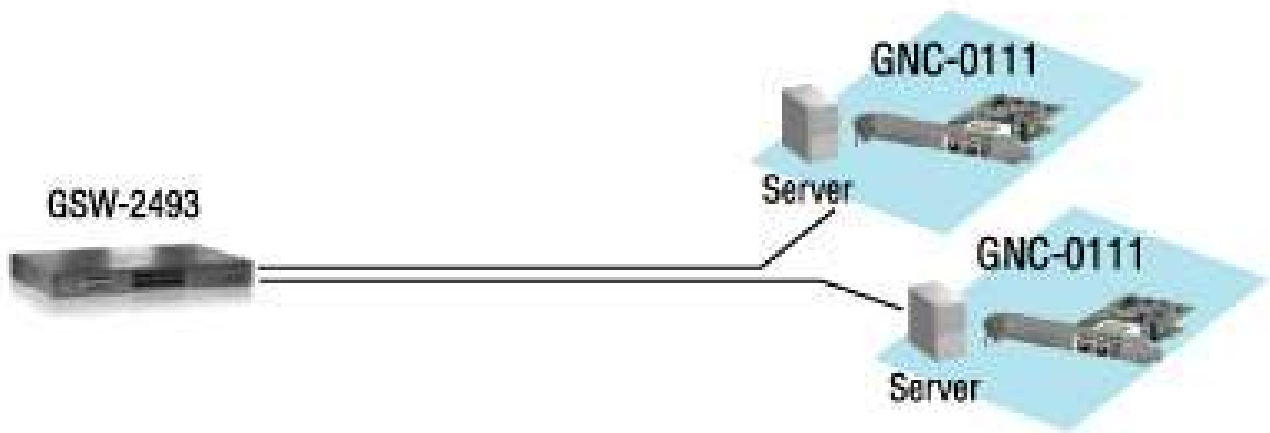
FCC Class B  
CE Mark  
RoHS

#### Software Support

Windows 98/ME/2000/NT4.0/2003/XP/Vista  
Novel Netware 4.x, 5.x, 6.x  
Linux  
PXE & RPL Boot ROM

## Product Diagram

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## Order Information

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**GNC-0111:** 1000FX Multi-mode SC Fiber Optic PCI Express Card

**Package Contents:**

- GNC-0111
- CD Manual