

Gigabit PCIe Fiber Network Interface Card

956-22600 Series

B+B SMARTWORX

Powered by

ADVANTECH



- TAA compliant
- Plug-and-Play support
- Preboot execution environment (PXE) 2.1
- Supports IPv4 and IPv6
- VLAN Filtering and Quality of Service (QoS)
- Checksum offload (IP, TCP, UDP) and Large Send Offload
- Supports Single-Mode and Multi-Mode Fiber

PRODUCT FEATURES

Introduction

Advantech B+B SmartWorx Gigabit PCIe Fiber Network Interface Cards (NIC) provide high-speed, and reliable network performance to the desktop and servers, making them perfect for government and education networks. The Gigabit PCIe Fiber Network Interface Cards fully comply with IEEE 802.3z and 1000Base SX/LX standards for Fiber. The Gigabit PCIe Fiber Network Interface Card cards provide advanced features to that meet the growing demand of IT Engineers and fit into virtually any network architecture.

Advanced Capabilities

With integrated state-of-the-art DSP technology, these cards provide high-speed robust transmission and large-sends offloading host CPU from processing checksums and Large Sends, while supporting Ethernet VLAN tagging, and L2 priority encoding IEEE 802.1P Layer 2 Priority, and Quality of Service (QoS). Preboot Execution Environment (PXE) support on Fiber NIC gives the NIC the ability to execute PXE protocol on the client machines. In addition, the NIC supports ASF (Alert Standard Format) 2.0 used in remote system management standards.

Secure Connectivity

Placing a fiber NIC card in a computer and giving it a direct fiber link to the network's fiber backbone makes the physical connection far more secure. That's why institutions with enhanced security needs take fiber all the way to the desktop. You can't tap into a beam of light.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
956-22600	1000 BASE-SX/LX SFP
956-22601	1000BASE-SX (SC) 850 MULTI-MODE FIBER GIGABIT ETHERNET ADAPTER
956-22603	1000BASE-SX (SC) 1310 SINGLE-MODE FIBER GIGABIT ADAPTER (10KM)

INCLUDED IN THE PACKAGE

PCIe Gigabit Fiber NIC

Low Profile Bracket

Standard Profile Bracket

CD with Drivers



TAA COMPLIANT

Gigabit PCIe Fiber Network Interface Card

956-22600 Series



SPECIFICATIONS

TECHNICAL STANDARDS

IEEE802.3z, 1000BASE-SX/LX
 IEEE 802.3ab
 IEEE802.1Q, VLAN tagging
 IEEE802.1p, Priority Encoding, QoS
 IEEE802.3x, Full duplex flow control
 IPv4, IPv6
 Jumbo Frame 9K bytes

PCIe1.1

DRIVER SUPPORT

Windows Vista, Windows 2003, Windows XP, Windows 7/8
 Linux 2.4/2.6/3.x, UNIX 5.0.6 and 5.0.7
 MacOS 10.4, 10.5, 10.6, and 10.7 (Intel-based)
 2000Mbps full-duplex

REMOTE MONITORING

SNMP v1
 Supports ASF (Alert Standard)

HARDWARE ACCELERATION

Checksum OffLoad (IP, TCP,UDP)
 Large Send OffLoad (V1, V2)

INTERFACE

Fiber Port Gigabit fiber, SM or MM

PERFORMANCE

1,488,100pps for 1000Mbps

LED INDICATORS

LED Connector: Link/Activity, SPD

ENVIRONMENTAL

Operating Temperature 0°C to 45°C (32°C to 113°C)
 Storage Temperature -20°C to 70°C (-4°C to 158°C)
 Ambient Relative Humidity 5%-95% non-condensing

POWER

3.3VDC, 970mA, 3.2W Max.

MECHANICAL

Low Profile Dimensions 80W x 117.6D mm
 (3.2W x 4.7D inches)
 Standard Profile Dimensions 117.5W x 117.6D mm
 (4.7W x 4.7D inches)

EMISSIONS

FCC Part 15, Class B
 CE, VCCI Class B

MECHANICAL DIAGRAM

Low Profile Version

