AT-2712LX20

Secure Single-mode Network Interface Card

AT-2712FX
100FX (SC), PCIe x 1, secure single-mode NIC

Overview

The AT-2712LX20 (available with SC connector) Network Interface Card is an ideal fit for fiber to the desktop networks that depend on secure and reliable systems. With a small form factor PCIe x1 bus the AT-2712LX20 is an ideal fit for government, education or other networks dependent on highly secure capabilities.

Secure Connectivity Through Fiber

Allied Telesis' AT-2712LX20 card is designed to provide desktop computers with network connections through a high-speed single-mode fiber-optic link with and SC interface. The AT-2712LX20 supports the Microsoft Windows operating systems, and is compliant with industry standards.

Comprehensive Software Support

Allied Telesis' AT-2712LX20 interface cards feature software to assist users with network setup and configurations. An offline user diagnostics program provides system administrators and engineers with a valuable tool to analyze the interface card and check data. Finally, the Broadcom Advance Control Suite program simplifies controlling and configuring all AT-2712LX20 cards.

Longer Distance

The Allied Telesis 20km single-mode interface card allows for greater cabling distances and achieves superior reliability, lowering the total cost of ownership. Without the need to use multiple products to achieve greater distances network managers reduce the number of points of failure and products needed in the network.

Secure Encrypted Data Transmssion

IP Security (IPSec) is a suite of protocols for securing Internet Protocol (IP) communications by authenticating and/or encrypting each IP packet in a data stream. The cryptographic algorithms that are used in IPSec operation are computationally intensive, which can overwhelm the host CPU at high network speeds. The AT-2712LX20 implements hardware that performs these computationally intensive cryptographic algorithms, which is known as IPSec task offload v2. The AT-2712LX20 supports the transport mode of IPSec Authentication Header (AH) and Encapsulation Security Payload (ESP) protocols for end-to-end security of packet traffic. Simultaneous AH and ESP task offload is also supported for up to 32 Security Associations (SA).

DASH

The Desktop and mobile Architecture for System Hardware (DASH) is a DMTF management initiative that represents a suite of specifications which standardize the manageability interfaces for mobile and desktop hardware. The DASH suite of specifications defines the interfaces for management in the form of protocols and profiles for representing mobile and desktop hardware. Fundamental to the DASH is the underlying goal to unify the experience achieved through out-of-band mechanisms with those available via the operating system.

Hassle Free Support

All Allied Telesis Network Interface Cards offer technical support, ensuring trouble-free installation.

Key Features

- Single-mode 20km
- Advanced centralized power management
- Secure data transmission
- NDIS 6 IPSec task offload compliant (Vista logo compliant)
- 32 security associations
- DASH manageability complaint with v1.1 as defined by the desktop and mobile workgroup
- IPv4 and IPv6 Large Send Offload and Checksum Offload (LSO/TCO)
- Wake on LAN (WoL) support meeting ACPI requirements
- Wake-on-LAN (WoL) supported (enabled by default, utility to disable available in firmware)
- Statistics for SNMP MIB II
- Standard and low-profile brackets provided

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Technical Specifications

Status Indicators

System LEDs

1 LED indicating link/activity

Interface Standards

IEEE 802.3u	Fast Ethernet
IEEE 802.3x	Full-duplex
PCIe x1	
DASH v 1.1.0	

Physical Characteristics

Dimensions (W x H)	10.7cm x 5.6cm (4.2in x 2.2in)
Weight	0.05lb (.04kg)

Standard or low-profile brackets provided (low profile fitted)

Power

Power consumption	760ma @ 3.3v

Environmental Specifications

Maximum operating temperature	0°C to 40°C (32°F to 104°F)
Maximim storage temperature	-25°C to 70°C (-13°F to 158°F)
Relative humidity operating and storage	5% to 95% non-condensing
Operating and storage altitude	Up to 3,048 meters (10,000ft)
Predicted MTBF (Telcordia SR332)	TBD

Optical Characteristics

Connector type: SC

Output Power (dBm)		
Min.	**Max**	**Wavelength**
-15	-5	1310nm

Receive Power (dBm)		
Min.	**Max**	**Wavelength**
-34	-32	1310nm

Data Encryption

IPSec task offload v2
32 Security Associations (SA)
AH transport for both IPv4 and IPv6 (AES-GMAC)
ESP transport for both IPv4 and IPV6 (AES-GMAC) (AES-GCM)

Standards

EMI part 15
FCC class A, EN55022 class A, VCCI class A, C-Tick, CE

Immunity
EN55024

Safety
UL60950-1 (cULUS), EN60950-1 (TUV)
EN60825

Electrical Interfaces
UL60950-1 (cULus)
EN60950-1 (TUV)
CAN/CSA C22.2 No. 60950-1

Drivers

Supported
Windows XP
Windows 2003
Windows Vista
Windows 7
Linux

Ordering Information

AT-2712LX20/SC-xxx
100FX/SC, PCIe x 1

Where xxx = 001 for single pack
901 for single pack, compliant with Trade Agreements Act

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