

Network Interface Cards

PRODUCT INFORMATION



AT-2712FX

PCI-EXPRESS SECURE NETWORK INTERFACE CARD

The Allied Telesis AT-2712FX (available with SC or MT connector) Network Interface Card is designed for fiber-to-the-desktop networks that depend on secure and reliable systems. With a small form factor PCIe x 1 bus, the AT-2712FX is an ideal fit for government, education or other networks with high security requirements.

Secure Connectivity through Fiber

The AT-2712FX is designed to provide desktop computers with network connections through a high-speed multi-mode fiber-optic link with an SC or MT interface. The AT-2712FX supports Microsoft Windows 2003, XP and Vista operating systems, and is compliant with industry standards.

Comprehensive Software Support

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

Secure Encrypted Data Transmission

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-2712FX implements hardware that performs these intensive cryptographic algorithms, known as IPSec task offload v2. The AT-2712FX 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

Desktop and mobile Architecture for System Hardware (DASH) is a DMTF management initiative that represents a suite of specifications, which standardize the management interfaces for mobile and desktop hardware. The DASH suite of specifications defines the interfaces for management in the form of protocols and profiles that represent 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

- » Advanced centralized power management
- » Secure data transmission
- » NDIS 6 IPSec task offload compliant (Vista logo compliant)
- » 32 security associations
- » DASH manageability compliant 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 (enabled by default, utility to disable available in firmware)
- » Statistics for SNMP MIB II
- » Standard and low-profile brackets provided



AT-2712FX | Secure Network Interface Card

Specifications

Bus Type

PCIe x1 v2.0

Interface Standards

IEEE 802.3u 100FX
IEEE 802.3x Flow control auto-negotiation
DASH v1.1.0

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)

Drivers

Windows 7, 64-bit
Windows 7, 32-bit
Windows Vista, 64-bit
Windows Vista, 32-bit
Windows XP, 32-bit
Windows 2003
Linux

Optical Specifications

Output Optical Power	-19 (Min)	-14 (Max) dBm
Optical Receive Power	-33.9 (Min)	-14 (Max) dBm
Wavelength	1310 nm	

Connectors

SC, MT

Status Indicators

LED	On: link up
	Off: link down
	Blink: activity

Power

Power consumption	760ma
Signaling voltage	3.3V

Environmental Specifications

Operating temperature	0°C to 45°C (32°F to 113°F)
Relative humidity	5% to 90% (non-condensing)
Storage temperature	-20°C to 70°C (-4°F to 158°F)
Operating/storage altitude	Up to 3,048 m (10,000 ft)
MTBF	3,600,000 hr

Physical Characteristics

Dimensions (W x H)	10.7 cm x 5.6 cm (4.2 in x 2.2 in)
Weight	40 g (1.4 oz)
Ships with low-profile bracket attached to interface card.	
Standard bracket included in packaging.	

Compliance

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

Ordering Information

AT-2712FX/AA-xxx

100FX PCIe x1 Secure Network Interface Card

Where AA = SC connector type
MT connector type

Where xxx = 001 for single pack
901 for single pack, Federal and Government



the solution : the network

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