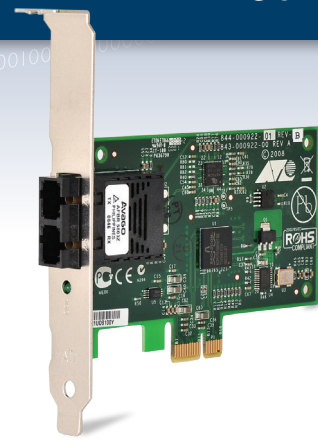


# 2712FX

## PCI Express Secure Network Adapter

The Allied Telesis 2712FX (available with SC or MT connector) Network Adapter 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 2712FX is an ideal fit for government, education or other networks with high security requirements.



### Secure connectivity through fiber

The 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 2712FX supports Microsoft Windows 2003, XP and Vista operating systems, and is compliant with industry standards.

### Comprehensive software support

Allied Telesis 2712FX adapters 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 2712FX adapters.

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

## 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 10, 64-bit  
Windows 10, 32-bit  
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

Optical Power  
Output -19 (Min) -14 (Max) dBm  
Receive -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