



## AT-2746FX

### PCI 32-bit Fast Ethernet Fiber Network Interface Card

#### AT-2746FX

100Mbps Fast Ethernet dual fiber 10FL and 100FX interface card

#### Choice and Flexibility

Allied Telesis' AT-2746FX is the answer for those fiber interface cards that support Wake-on-LAN (WoL) for either PCI 2.1 or PCI 2.2 systems but not both. Allied Telesis' NICs support WoL through the PCI 2.2 bus and support PCI 2.1 WoL via external cables. Resistant to signal degradation, snooping, and interference, the AT-2746FX is the ideal solution for networks requiring protection from electrical interference and hackers. The small footprint—together with the low-profile option of the AT-2746FX—make these products a perfect choice for PCs equipped with small desktop solutions.

#### Advanced Manageability

Allied Telesis' AT-2746FX features a full-line of card assistant software:

- AT-Setup reduces Windows Driver installation to a mouse click. This Windows program guides users through driver installation, updates, and problem corrections.
- AT-Stat is an advanced Windows application that reports network conditions and performance such as hardware resources, network statistics, and configuration.
- The VLAN protocol driver allows network administrators to configure their VLAN network fabric at the PC instead of the switch, enabling transparent movement of systems between switches.
- TCP/IP checksum off-loading improves CPU use by verifying TCP/IP traffic checksums at the interface card rather than at the host processor, improving overall system performance for slower PCs.
- Packet prioritization enables Windows applications with Class of Service capabilities to prioritize out-bound packet streams to these NICs, a useful feature for video streaming and VoIP where interruptions are unacceptable.
- The AT-2746FX's onboard Managed Boot Agent (MBA) provides a wide set of industry-standard boot protocols, including PXE, NetWare NCP/IPX, IBM's RPL, traditional DHCP, and BOOTP, supporting both BBS (BIOS Boot Specification) and non-BBS compliant PCs. It also includes an extensive set of utilities for boot ROM configuration, as well as access to pre-OS and network boot image files.
- Offering a wide range of connector choices—ST or SC—these cards meet the requirements of most fiber installations.

#### Key Features

##### Management Software

- VLAN support

- Link aggregation

- Failover

##### Advance Properties

- PCI 2.2 compliant

- Wake-on-LAN (WoL) supported (enabled by default, utility to disable available in firmware)

- Secured transmissions

- Advanced installation utility

- Advanced diagnostics

- Remote boot (PXE 2.1)

- TCP/IP checksum off-loading

- Priority queuing

- Driver support for popular operating systems including Sun Solaris

- Available with SC or ST fiber connections

- Compliant with the Trade Agreement Act

- Microsoft certified drivers

- RoHS compliant

- IPv6

- Also can be used in PCI-x bus

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## Specifications

### Management Features

WMI  
ACPI 2.0/w01  
PXE 2.1 Boot ROM

### Bus Type

PCI 2.2

### Ethernet Standards

IEEE 802.1p	Quality of Service
IEEE 802.1Q	VLANs
IEEE 802.2	LLC
IEEE 802.3ac	MAC
IEEE 802.3	10 Ethernet
IEEE 802.3u	Fast Ethernet

### Drivers

#### Supported

Vista  
Vista 64-bit  
Windows XP  
Windows XP 64-bit  
Windows 2003  
Windows 2003 64-bit  
Windows 2000  
NDIS2  
NetWare 6.x  
Linux 2.4  
Linux 2.6

#### Available

Windows NT 4  
Solaris x86  
Solaris Sparc 32-bit  
Solaris Sparc 64-bit  
NetWare 5.x

### Compliance

RoHS  
UL  
FCC/EN55022 Class B  
TUV  
EN55024  
CE  
C-TICK  
VCCI

### Connectors

SC  
ST  
MT-RJ  
RJ-45

#### 100FX

Optical receive sensitivity (max) -31dBm  
Transmit optical power (min/max) -19/-14dBm

#### 10FL

Optical receive sensitivity (max) -34.4dBm  
Transmit optical power (min/max) -18.8/-13.8dBm

### Environmental Specifications

Operating temperature 0°C to 50°C  
Storage temperature -25°C to 70°C  
Relative humidity 5% to 90% non-condensing

### Power

Power consumption 5 Watts (max)  
Signaling voltage 3.3/5V

### Status Indicators

10	ON	10Mbps link up
	Green	Full-duplex mode
	Yellow	Half-duplex mode
	Blink	Activity
OFF		10Mbps link down

100	ON	100Mbps link up
	Green	Full-duplex mode
	Yellow	Half-duplex mode
	Blink	Activity
OFF		100Mbps link down

### Physical Characteristics

Dimensions 17.5cm x 8.4cm  
(W x H) (6.9") x (3.3")

### Network Type

10FL, 100FX

### Network Controller

AMD AM79C976

## Ordering Information

### AT-2746FX/AA/AA-xxx

100Mbps Fast Ethernet dual fiber and copper interface card

Where AA = ST or SC

Where xxx = 001 for single pack

901 for single pack,  
compliant with Trade Agreements Act

Ships with standard bracket attached to interface card.

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