Allied Telesis

2716PoE/FX Series

PCI Express x 1 Dual Port PoE Network Adapters

The Allied Telesis 2716POE/FX Series PoE Network Adapters enable a PC to power a VoIP phone or other traditional copper Powered Device (PD) over a secure fiber network.

VoIP/PoE Flexibility

The 2716POE/FX Series are two-port adapters with a 100FX multi-mode fiber port and a 10/100/1000T copper port capable of supporting Class 3 PoE devices.

These unique products allow PoE devices, such as a VoIP phone, to be attached to a standard desktop and communicate downstream through a secured 100FX fiber link.

The 2716POE/FX Series is unique in that it allows copper devices such as VoIP phones, Wi-Fi access points, and cameras to communicate through a secured fiber network—without the additional expense of media converters or a separate network to segment the traffic, thus saving installation and maintenance costs.

AT-MUX

Bridging of the fiber and copper interface is accomplished with installation of the Allied Telesis

AT-MUX application. With AT-MUX, each interface can be prioritized and separated into VLANs, allowing segmentation of data and voice traffic onto a single fiber link.

Advanced Manageability

The priority queuing offered by the 2716POE/FX Series can help users set up the network, based on their own needs, providing easy prioritization of VOIP traffic. The comprehensive diagnostics and configuration software suite provides system administrators and engineers with a profound tool to analyze the interface card and check specific data.

More Bandwidth with PCI-Express Interface

The 2716POE/FX Series PCI-Express (PCIe x1) design offers the maximum possible bandwidth and bus efficiency while providing the benefits of low power consumption.
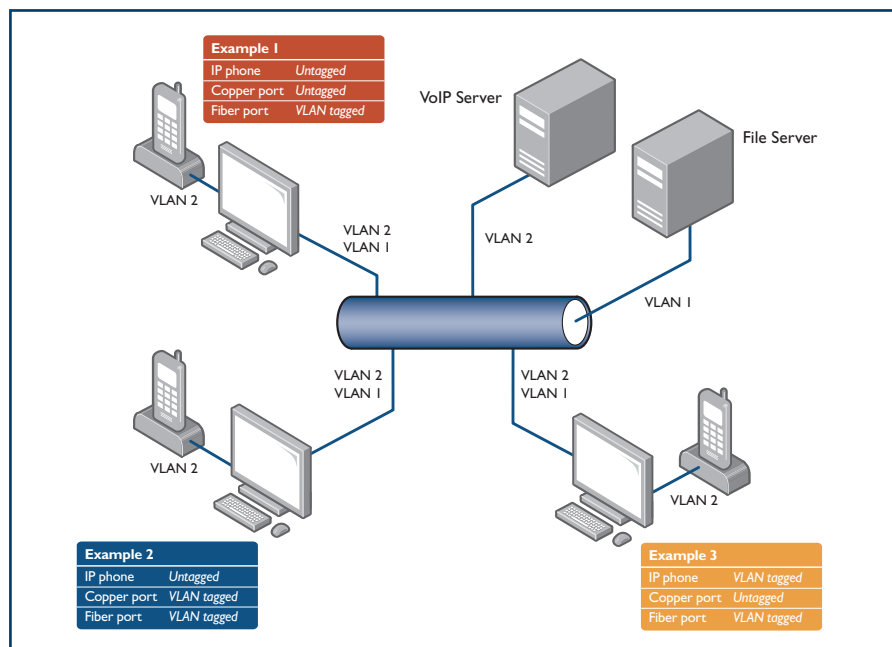
Key Features

Management software

▶ VLAN support

▶ Link aggregation

▶ Failover

Advanced properties

▶ Dual port (multi-mode fiber and copper) adapter with PoE

▶ PCIe x1 2.0

▶ 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 queueing

▶ Driver support for popular operating systems

▶ Available with SC or ST connectors

▶ Compliant with the Trade Agreement Act

▶ Microsoft-certified drivers

▶ RoHS compliant

▶ Low-profile and standard height brackets included (low-profile attached)

▶ IPv6

Example 1	
IP phone	*Untagged*
Copper port	*Untagged*
Fiber port	*VLAN tagged*

VoIP Server

File Server

VLAN 2

VLAN 2
VLAN 1

VLAN 2

VLAN 1

VLAN 2
VLAN 1

VLAN 2
VLAN 1

VLAN 2

VLAN 2

Example 2	
IP phone	*Untagged*
Copper port	*VLAN tagged*
Fiber port	*VLAN tagged*

Example 3	
IP phone	*VLAN tagged*
Copper port	*Untagged*
Fiber port	*VLAN tagged*

NETWORK SMARTER

2716PoE/FX Series | PCI Express x 1 Dual Port PoE Network Adapters

Specifications

Management Features
WMI
ACPI 1.1
PXE 2.1 boot ROM
SNMP

Bus Type
PCIe x 1 v2.0

Ethernet
IEEE 802.1p	Quality of Service
IEEE 802.1Q	VLANs
IEEE 802.2	LLC
IEEE 802.3ac	MAC
IEEE 802.3i	10T over twisted pair
IEEE 802.3u	100T
IEEE 802.3ab	1000T over twisted pair
IEEE 802.3x	Flow control auto-negotiation
IEEE 802.3af	Class 3 PoE

Power over Ethernet
Mode A power
Power budget   15.4W

Drivers
Windows 10, 64- or 32-bit
Windows 8, 64- or 32-bit
Windows 7, 64- or 32-bit*
Windows Vista, 64- or 32-bit
Windows XP, 64- or 32*-bit
Windows Server 2012 R2, 64-bit
Windows Server 2012, 64-bit
Windows Server 2008 R2, 64- or 32-bit
Windows Server 2008, 64- or 32-bit
Windows Server 2003, 64- or 32-bit
Linux 2.6
* Supported by AT-Mux bridging software

Network Type
10/100/1000T with PoE
100FX

Network Speed
Copper	Auto-negotiation
	1000 full-duplex
	1000 half-duplex
	100 full-duplex
	100 half-duplex
	10 full-duplex
	10 half-duplex
Fiber	100 full-duplex
	100 half-duplex

Network Controller
Broadcom BCM5718

Optical Specifications
Output Optical Power	-20(Min)	-14(Max) dBM
Optical Sensitivity	-34 (Typ)	-32(Max) dBM
Center Wavelength	1310 nm	

Connectors
RJ-45
Duplex SC or ST
SATA – Serial ATA used to draw power for PoE

Status Indicators
LED (per port)	On: link up
	Off: link down
	Blink: activity

Power
Power consumption	2.5 Watts (avg) without PoE
Signaling voltage	3.3V

Environmental Specifications
Operating temperature	0ºC to 40ºC (32°F to 104°F)
Relative humidity	5% to 90% (non-condensing)
Storage temperature	-25ºC to 70ºC (-13°F to 158°F)

Physical Characteristics
Dimensions (W x H)	14.09 cm x 5.6 cm
	(5.5 in x 2.2 in)
Weight	68 g (2.4 oz)

Ships with low-profile bracket attached to network adapter. Standard bracket included in packaging.

Compliance
RoHS
China RoHS
UL
FCC/EN55022 Class A
TUV
EN55024
CE
C-TICK
VCCI

Ordering Information

AT-2716POE/FXAA-xxx
100FX + 10/100/1000T PoE PCIe x1
network adapter

Where AA =	SC connector type
	ST connector type

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

Ships with low-profile bracket attached to network adapter. Standard bracket is included in packaging.