2911GP Series
PCI-EXPRESS DUAL PORT PoE+ ADAPTERS

Allied Telesis 2911GP Series PoE+ Network Interface Cards enable a PC to power a VoIP phone or other traditional copper Powered Device (PD) over a secure fiber network.

PoE plus   2002/95/EC RoHS COMPLIANT   IPV6 READY

VoIP/PoE Flexibility

The AT-2911GP is a two-port adapter with a 1000SX, LX, or SFP fiber port and a 10/100/1000T copper port capable of supporting Class 4 PoE+ devices.

The AT-2911GP 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

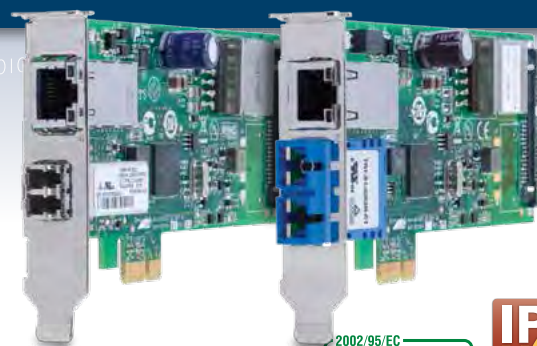A small Windows-based application, AT-MUX, bridges data between the copper port, the computer, and the fiber port, allowing each interface to be prioritized and separated into a private VLAN for transportation over the fiber link.

Advanced Manageability

The priority queuing offered by the AT-2911GP can help users set up the network based on their own needs. The comprehensive diagnostics and configuration software suite provides system administrators and engineers with a powerful tool to analyze the interface card and check specific data.

More Bandwidth with PCI-Express Interface

The AT-2911GP PCI-Express (PCIe x1) design offers the maximum possible bandwidth and bus efficiency while providing the benefits of low power consumption.
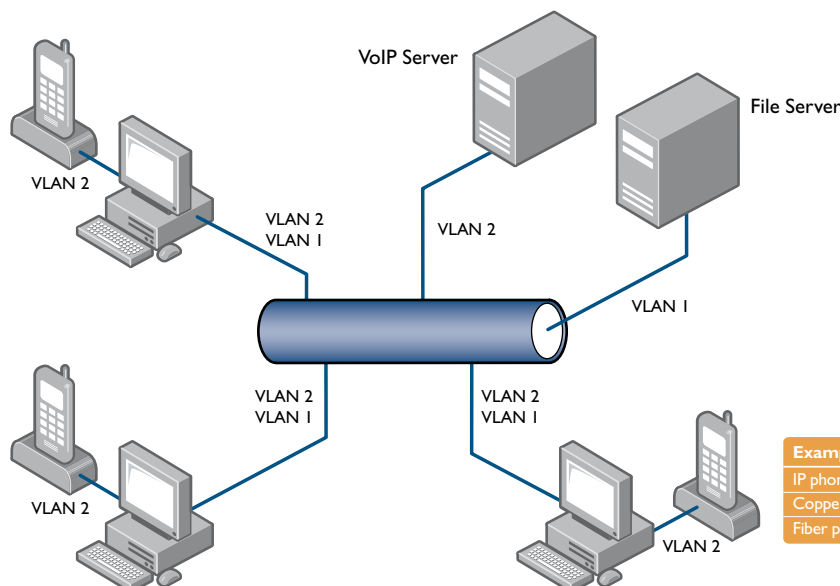
Key Features

Management Software
» VLAN support
» Link aggregation
» Failover

Advanced Properties
» PCIe 2.0
» 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, LC, or SFP 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

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

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

Specifications

Management Features
WMI
ACPI 1.1
PXE 2.1 boot ROM
SNMP

Bus Type
PCIe x1

Ethernet

IEEE 802.1p	Quality of Service
IEEE 802.1Q	VLANs
IEEE 802.2	LLC
IEEE 802.3ac	MAC
IEEE 802.3ab	1000T over twisted pair
IEEE 802.3x	Flow control auto-negotiation
IEEE 802.3z	1000X
IEEE 802.3af	Class 3 PoE
IEEE 802.3at	Class 4 PoE (PoE+)

Power over Ethernet
Mode A power
Power budget   536MA @ 56V, 30 Watts

Drivers
Windows 8 32 bit
Windows 8 64 bit
Windows 8.1 32 bit
Windows 8.1 64 bit
Windows Server 2012
Windows Server 2012 R2
Windows Server 2008 32
Windows Server 2008 64
Windows Server 2008 R2
Windows Server 2003 32 bit
Windows Server 2003 64 bit
Windows 7, 64-bit*
Windows 7, 32-bit*
Windows Vista, 64-bit
Windows Vista, 32-bit
Windows XP, 64-bit
Windows XP, 32-bit*
Linux
* Supported by AT-Mux bridging software

Network Type
10/100/1000T with PoE+
1000SX, 1000LX, or 1G SFP

Network Speed

Copper	Auto-negotiation
	100 full-duplex
	100 half-duplex
	10 full-duplex
	10 half-duplex
Fiber	1000SX
	1000LX

Network Controller
Broadcom BCM5718

Optical Specifications

SX

Output Optical Power	-9.5 (Min)	-4 (Max) dBM
Optical Sensitivity	-19 (Typ)	-17 (Max) dBM
Center Wavelength	850 nm	

LX

Output Optical Power	-9 (Min)	-3 (Max) dBM
Optical Sensitivity	-20 (Typ)	-19 (Max) dBM
Center Wavelength	1310 nm	

Connectors
RJ-45
SC, LC
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 interface card. Standard bracket included in packaging.

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

Ordering Information

AT-2911GP/SXLC-xxx
1000SX + 10/100/1000T PoE+ PCIe x1
   Network Interface Card with LC connector

AT-2911GP/SXSC-xxx
1000SX + 10/100/1000T PoE+ PCIe x1
   Network Interface Card with SC connector

AT-2911GP/LXLC-xxx
1000LX + 10/100/1000T PoE+ PCIe x1
   Network Interface Card with LC connector

AT-2911GP/LXSC-xxx
1000LX + 10/100/1000T PoE+ PCIe x1
   Network Interface Card with SC connector

AT-2911GP/SFP-xxx
1G SFP + 10/100/1000T PoE+ PCIe x1
   Network Interface Card with SFP connector

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

Ships with low-profile bracket attached to interface card.
Standard bracket is included in packaging.

Allied Telesis   the **solution** : the **network**