2914GP Series

PCI-Express Dual Port PoE+ Adapter

The Allied Telesis 2914GP PoE+ Network Adapter allows a PC to power a VoIP phone, or other traditional copper powered device, over a secure fiber network.

PoE plus

VoIP/PoE flexibility

The 2914GP is a two-port adapter with one SFP port and one 10/100/1000T copper port which is capable of supporting PoE+ devices up to 30W, up to the 802.3at standard of 25.5W.

The 2914GP is unique because it allows devices using copper connections, such as VoIP phones, Wi-Fi Access Points (APs) and cameras to communicate via a secure fiber network—without the additional expense of media converters or a separate network to segment the traffic, thus saving installation and maintenance costs.

VLAN capable

Vlan IDs for the copper and fiber port can be set via a USB console communication port located on the adapter bracket. This allows the copper and fiber port to send separate VLAN IDS during normal operation as well as during system power-off states. This allows logical grouping of data and voice traffic and enforcement of security policies.

Advanced manageability

The priority queuing offered by the 2914GP Series lets users set up the network based on their own needs. Comprehensive diagnostic and configuration tools enable administrators to analyze adapter performance, and monitor traffic arriving on the network.

Power options

The 2914GP can power the copper PoE port either from an optional external power supply, or through the PCIe slot. It will not power share between the two power options. Priority is given to the external PSU if it is present.

If powered via the PCIe slot, the 2914GP can power a PoE device without any external hardware up to 15W. With the optional external PSU, it can power an external device up to 25.5W. Additionally, with this external PSU, the 2914GP will allow phone traffic to pass through the adapter, (with VLAN IDs) during system-off states—allowing phone operations even when the desktop is powered off.
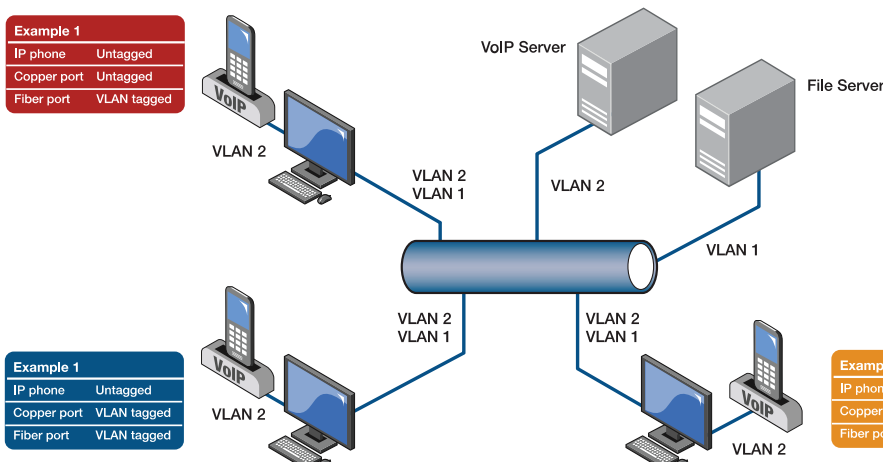
Key Features

Management Software

▶ VLAN support

▶ Link aggregation

▶ Failover

Advanced Properties

▶ Supports 100Mbps and 1000Mbps optics

▶ 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

▶ Compliant with the Trade Agreement Act (TAA)

▶ 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

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

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

2914GP | PCI-Express Dual Port PoE+ Adapter

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	1000 Base-X
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

Compatible with Drivers:
Windows 11
Windows 10
Windows Server 2022
Windows Server 2019
Linux

Network Type
10/100/1000T with PoE+

Network Speed
Copper	Auto-negotiation
1000 full-duplex	
100 full-duplex	
100 half-duplex	
10 full-duplex	
10 half-duplex	
Fiber	SFP (100mb or 1000mb)

Network Controller
Broadcom BCM5720

Connectors
RJ-45
SFP (1000Mb only)

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 50ºC (32°F to 122°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	114 g (4. oz)

Compliance
RoHS
  China RoHS
  UL
  TUV
  EN55024
  CE
  VCCI
EN55032
FCC Part 15
RCM (C-Tick)
ICES (Canada)

Ordering Information

AT-2914GP/SP-901
SFP, 10/100/1000T PoE+ PCIe Adapter, TAA[1]

AT-2914GP-PSU-60
Optional External PSU for 2914GP

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

Supported SFPs

AT-SPFX/2-90
2 km, 100FX (LC), 1310 nm, TAA[1]

AT-SPFX30/I
30 km, 100FX (LC), 1310 nm

AT-SPFXBD-LC-13
15 km, 100FX, BiDi SFP (1310/1550)

AT-SPFXBD-LC-15
15 km, 100FX, BiDi SFP (1550/1310)

AT-SPEX
1000EX SFP, LC, MMF, 1310 nm, TAA[1]

AT-SPSX-90
1000SX SFP, LC, MMF, 850 nm, TAA[1]

AT-SPSX/I
1000SX SFP, LC, MMF, 850 nm, I-Temp

AT-SPLX10
1000LX SFP, LC, SMF, 1310 nm (10 km)

AT-SPLX10/I
1000LX SFP, LC, SMF, 1310 nm, (10 km), I-Temp

AT-SPLX40
1000EX (LC) single-mode, 40 km

AT-SPTX-90[2]
10/100/1000T, 100 m, TAA[1]

AT-SPBD10-13
10 km, 1G, SMF, BiDi, LC
(1310Tx/1490Rx)

AT-SPBD10-14
10 km, 1G, SMF, BiDi, LC
(1490Tx/1310Rx)

AT-SPBD20LC/I-13
20 km, 1G, SMF, BiDi, LC, TAA[1]
(1310Tx/1490Rx)

AT-SPBD20LC/I-14
20 km, 1G, SMF, BiDi, LC, TAA[1]
(1490Tx/1310Rx)

[1] TAA compliant
[2] 2914GP supports at 1000T only