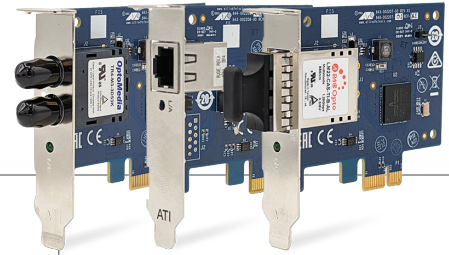# 2911a Series

PCI Express Gigabit Network Adapters

Allied Telesis x540L Series switches provide high performance with up to 10G Allied Telesis 2911a Series Network Adapters feature a PCI Express (PCIe x1)design, providing the maximum possible bandwidth and bus efficiency with the benefits of low-power consumption.

The Allied Telesis 2911a Series provides the highest levels of performance, efficiency, and scalability for enterprise connectivity. Designed for today's enterprise and data center environments, the 2911a Series is the ideal solution for delivering full line-rate throughput across all ports.

Increasing application workloads place greater demands on enterprise networks. By leveraging Broadcom's market-proven Ethernet feature set, the 2911a Series improves reliability and interoperability and provides a
high- performance, energy-efficient 1 Gigabit connectivity solution. The 2911a Series is compatible with x86 and x64 servers/PCs utilizing the PCIe v1.x and v2.x interfaces.

SPECIFICATIONS

Management Features

Windows Management Instrumentation (WMI)
PXE 2.1
PCI Express v2.0

Bus Type

PCIe x1

Ethernet

PCIe Base	2.0
PCI Pwr Mgmt	Rev 1.2
ACPI	V2.0
SMBus	2.0
IEEE 802.3ab	1000 Base-T
IEEE 802.3u	100 Base-TX
IEEE 802.3i	10 Base-T
IEEE 802.1q	VLAN Tagging
IEEE 802.3az	Energy-Efficient Ethernet (EEE)
IEEE 802.3x	Flow Control
IEEE 802.3z	1000Base-SX

Drivers

Windows 10
Windows 11
Windows Server 2019
Windows Server 2025
Linux

Interface Type and Connectors

1000SX/ST connector
Optical sensitivity	-17 dBm
Output optical power	-9.5/-4 dBm
Wavelength	850 nm

1000SX/SC connector
Optical sensitivity	-17 dBm
Output optical power	-9.5/-4 dBm
Wavelength	850 nm

1000SX/LC connector
Optical sensitivity	-17 dBm
Output optical power	-9.5/-4 dBm
Wavelength	850 nm

Status Indicators

LED	On	Link up
	Off	Link down
	Blinking	Activity

Power

Power consumption	1.51 to 2.42W (varies by model)
Signaling voltage	3.3V

Environmental Specifications

Operating temperature	0ºC to 50ºC at full load (32°F to 122°F)
Relative humidity	5% to 90% (non-condensing)
Storage temperature	-25ºC to 70ºC (-13°F to 158°F)

Physical Characteristics

All dimensions are card only (bracket not attached)

2911Ta
Dimensions (L x H)	9.8 cm x 6.8 cm
Weight	1.2 oz (34.02 grams)

2911Ta/2
Dimensions (L x H)	9.8 cm x 6.8 cm
Weight	1.4 oz (39.69 grams)

2911SXa/SC:
Dimensions (L x H)	9.7 cm x 6.8 cm
Weight	1.4 oz (39.69 grams)

2911SXa/ST
Dimensions (L x H)	9.9 cm x 6.8 cm
Weight	1.1 oz (31.18 grams)

2911SXa/LC
Dimensions (L x H)	9.8 cm x 6.8 cm
Weight	1.2 oz (34.02 grams)

2911SFPa/2
Dimensions (L x H)	9.8 cm x 6.8 cm
Weight	1.4 oz (39.69 grams)

Key Features

- x1 PCI Express (PCIe) v2.0 (5 GT/s) support

- Energy Efficient Ethernet (EEE)

- I/O Virtualization supported with 17 receive queues and 16 transmit queues per port

- Full line-rate performance across all ports

- Broad OS and hypervisor support

- Preboot eXecution Environment (PXE)support

- Support for VMware NetQueue and Microsoft VMQ

- Link aggregation and automatic load balancing on Windows Server

- Wake-on-LAN support

- MSI and MSI-X support

- IPv4 and IPv6 offloads

- TCP, UDP, and IP checksum offloads

- Large Send Offload (LSO)

- TCP Segmentation Offload (TSO)

- Receive Side Scaling (RSS)

- Transmit Side Scaling (TSS)

- VLAN support with VLAN tagging

- Jumbo frame support for frames larger than 1500 Bytes

- Broadcom Advanced Control Suite (BACS) management application

- iSCSI remote boot support

Compliance

Safety:
  UL62368-1 (electronic and electrical safety - NA)
  TUV EN62368-1 (electronic and electrical safety – Europe)
  EN 60825 -1 (laser - Europe)
  IEC 60825-1 (laser – US)
  CSA22.2 No.950
  TUV (EN60950)
  CE

Emissions:
  FCC Class B (US)
  ICES Issue 7 (Canada)
  EN 55032 (EMC Europe)
  C-TICK

Immunity:
  EN 55035 (Europe)
  IEC 55035 (NA)

Material:
  TSCA PIP 3:1
  Reach
  RoHS

Country specific labeling:
  RCM (Australia)
  UKCA (United Kingdom)

Packaging:
  Drop & Vibration

ORDERING INFORMATION

Single Port Models

AT-2911SXa/ST-xx	1000SX ST PCIe x1 network adapter1
AT-2911SXa/SC-xx	1000SX SC PCIe x1 network adapter1
AT-2911SXa/LC-xx	1000SX LC PCIe x1 network adapter1
AT-2911Ta-xx	10/100/1000T PCIe x1 network adapter

Dual Port Models

AT-2911SFPa/2-xx	1G SFP x 2 PCIe x1 network adapterU
AT-2911Ta/2-xxx	10/100/1000T x 2 PCIe x1 network adapter

Where xxx = 901 for single pack, TAA Compliant

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

AlliedTelesis.com