



AT-2912T

Secure Network Interface Card

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10/100/1000T, PCIe x 1, secure NIC

Overview

The AT-2912T Network Interface Card is an ideal fit for networks that depend on secure and reliable systems. With a small form factor PCIe x1 bus the AT-2912T is an ideal fit for government, education or other networks dependent on highly secure capabilities.

Comprehensive Software Support

The AT-2912T supports the Microsoft Windows 2003, XP and Vista operating systems, and is compliant with industry standards. The cards feature software to assist users with network setup and configurations. An offline user diagnostics program provides system administrators and engineers with a valuable tool to analyze the interface card and check data. Finally, the Broadcom Advance Control Suite program simplifies controlling and configuring all AT-2912T cards.

Secure Encrypted Data Transmssion

IP Security (IPSec) is a suite of protocols for securing Internet Protocol (IP) communications by authenticating and/or encrypting each IP packet in a data stream. The cryptographic algorithms that are used in IPSec operation are computationally intensive, which can overwhelm the host CPU at high network speeds. The AT-2912T implements hardware that performs these computationally intensive cryptographic algorithms, which is known as IPSec task offload v2. The AT-2912T supports the transport mode of IPSec Authentication Header (AH) and Encapsulation Security Payload (ESP) protocols for end-to-end security of packet traffic. Simultaneous AH and ESP task offload is also supported for up to 32 Security Associations (SA).

DASH

The Desktop and mobile Architecture for System Hardware (DASH) is a DMTF management initiative that represents a suite of specifications which standardize the manageability interfaces for mobile and desktop hardware. The DASH suite of specifications defines the interfaces for management in the form of protocols and profiles for representing mobile and desktop hardware. Fundamental to the DASH is the underlying goal to unify the experience achieved through out-of-band mechanisms with those available via the operating system.

Hassle Free Support

All Allied Telesis Network Interface Cards offer technical support, ensuring trouble-free installation.

Key Features

- Advanced centralized power management
- Secure data transmission
- NDIS 6 IPSec task offload compliant (Vista logo compliant)
- 32 security associations
- DASH manageability compliant with v1.1 as defined by the desktop and mobile workgroup
- IPv4 and IPv6 Large Send Offload and Checksum Offload (LSO/TCO)
- Wake-on-LAN (WoL) support meeting ACPI requirements
- Wake-on-LAN (WoL) supported (enabled by default, utility to disable available in firmware)
- Statistics for SNMP MIB II
- Standard and low-profile brackets provided
- Remote boot (PXE 2.0)
- Advance cable diagnostic
- Large send offload

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Technical Specifications

Status Indicators

System LEDs

1 LED indicating link/activity

Interface Standards

IEEE 802.1Q	VLANs
IEEE 802.3ab	Gigabit Ethernet
IEEE 802.3ad	Link Aggregation
IEEE 802.3ap	Priority
IEEE 802.3u	Fast Ethernet
IEEE 802.3x	Full-duplex
PCIe x1	
DASH v 1.1.0	

Physical Characteristics

Dimensions (W x H) 10.7cm x 5.6cm
(4.2in x 2.2in)

Weight 0.05lb (.04kg)

Standard or low-profile brackets provided
(standard fitted)

Power

Power consumption 760ma @ 3.3v

Environmental Specifications

Maximum operating temperature 0°C to 40°C
(32°F to 104°F)

Maximum storage temperature -25°C to 70°C
(-13°F to 158°F)

Relative humidity operating and storage 5% to 95% non-condensing

Operating and storage altitude Up to 3,048 meters (10,000ft)

Predicted MTBF (Telcordia SR332) TBD

Optical Characteristics

Connector type RJ-45

Data Encryption

IPSec task offload v2
32 Security Associations (SA)
AH transport for both IPv4 and IPv6 (AES-GMAC)
ESP transport for both IPv4 and IPv6
(AES-GMAC) (AES-GCM)

Standards

EMI part 15
FCC class A, EN55022 class A, VCCI class A, C-Tick, CE

Immunity

EN55024

Safety

UL60950-1 (cULUS), EN60950-1 (TUV)
EN60825

Electrical Interfaces

UL60950-1 (cULUS)
EN60950-1 (TUV)
CAN/CSA C22.2 No. 60950-1

Drivers

Supported

Windows XP
Windows 2003
Windows Vista
Windows 7
Linux

Ordering Information

AT-2912T-xxx

10/100/1000T, PCIe x 1

Where xxx = 001 for single pack

901 for single pack,
compliant with Trade Agreements Act

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