Allied Telesis™

AT-2971T
Gigabit Ethernet Copper PCI Extended Server Interface Card

AT-2971T
PCI-x 64-bit copper Gigabit interface card

High Performance
A high performance interface card with a 32-bit or 64-bit (33/66/1000/133 Mhz) bus, line speed and jumbo frames support, Allied Telesis' AT-2971T supports the calculation of TCP, UDP and IP checksums through the hardware platform without time loss by the MAC controller for both transmission and receiving paths—a capability that leads to improvements on overall system performance. To reduce the load on the CPU, Allied Telesis' AT-2971T uses interrupt moderation to group the huge amounts of interrupts caused by small packets transferred at Gigabit speed, enabling the handling of several data packets per interrupt.

High Reliability
The AT-2971T Gigabit Ethernet interface card comes with a variety of reliability features that maintain the longest-possible connection through link aggregation, redundant switch failover and PCI hot plug. The on-board sensors and driver functions monitor the health of interface cards and their ports, enabling proactive network management.

Comprehensive Software Support
The AT-2971T interface cards feature a set of software programs that assist you with your network set-up and configuration. The offline user diagnostic program provides system administrators and engineers with a tool to analyze Network Interface Cards and check specific data. The network control program for Windows 2K, Windows XP and Windows Vista Server 2003 allows you to easily control and configure all your AT-2971T interface cards.

Virtual Cable Tester™ (VCT)
The VCT program detects and reports potential cabling issues such as cable opens, cable shorts or any impedance mismatches in the cable. It can also accurately locate the distance to the cabling fault within a tolerance of one meter, helping you to quickly identify failing mechanisms and isolate the source of problems.

Key Features

Management Software
- Virtual cable tester
- VLAN support
- Link aggregation LACP
- Failover

Advance Properties
- Jumbo frames
- Checksum offloading
- Adaptive interrupts
- Sensor support
- PCI-x (PCI Extended) 64-bit
- Windows Vista
- IEEE 802.1x flow control
- IEEE 802.1p-based traffic prioritization
- TCP segmentation (large send)
- PXE 2.1 remote root support
- Wake-on-LAN (WoL)
- Low-profile and standard height brackets included
- Microsoft certified drivers
- RoHS compliant
- Dynamic interrupt moderation

Specifications

Management Features
WMI
ACPI 2.0/wOl
PXE 2.1 Boot ROM

Bus Type
PCI-x 64-bit

Ethernet Standards
IEEE 802.1p	Quality of Service
IEEE 802.1Q	VLANs
IEEE 802.2	LLC
IEEE 802.3ac	MAC
IEEE 802.3	10 Ethernet
IEEE 802.3u	Fast Ethernet
IEEE 802.3ab	Gigabit standard

Drivers
Supported
Vista
Vista 64-bit
Windows XP
Windows XP 64-bit
Windows 2003
Windows 2003 64-bit
Windows 2000
NDIS2
NetWare 6.x
Linux 2.4
Linux 2.6

Available
Solaris x86
Solaris Sparc 32-bit
Solaris Sparc 64-bit
Free BSD
AIX
NetWare 5.x

Compliance
RoHS
cUL
UL
FCC/EN55022 Class B
TUV
EN55024
CE
C-TICK
VCCI

Connectors
RJ-45

Environmental Specifications
Operating temperature	0°C to 50°C
Storage temperature	-25°C to 70°C
Relative humidity	5% to 90% non-condensing

Power
Power consumption	3 Watts (max)
Signaling voltage	3.3/5V

Status Indicators
LED		4 ports
10	ON	10Mbps link up
	OFF	10Mbps link down
100	ON	100Mbps link up
	OFF	100Mbps link down
1000	ON	1000Mbps link up
	OFF	1000Mbps link down
ACT	ON	Receiving/transmitting
	OFF	Not receiving/ not transmitting

Physical Characteristics
Dimensions (W x H)	16.8cm x 5.4cm (6.7") x (2.1")
Weight	72g

Ships with standard bracket attached to interface card. Low-profile bracket is included in packaging.

Network Type
1000T

Network Speed
Auto-negotiation
100 full-duplex
100 half-duplex
10 full-duplex
10 half-duplex

Network Controller
Marvell 88E8022

Ordering Information

AT-2971T-yyy
PCI-x 64-bit copper Gigabit interface card

Where yyy = 001 for single pack
020 for 20-pack
901 for single pack, Federal and Government
920 for 20-pack, Federal and Government

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Connecting The (IP) World

Allied Telesis