Allied Telesis™

AT-2931SX
PCI Extended (PCI-x) Gigabit Fiber Interface Card

AT-2931SX
1000SX 64-bit PCI-x Gigabit fiber interface card

Performance
Allied Telesis' AT-2931SX is a highly reliable 64-bit PCI-x Gigabit fiber interface card with 9KB jumbo frames support for network upgrade needs. The AT-2931SX helps to boost your Gigabit Ethernet throughput ten times to 1000Mbps. With the 1000SX fiber-optic connection, data transmission is both secure and faster.

In order to reduce CPU use, Allied Telesis' AT-2931SX uses the adaptive interrupts and ultra-deep 96KB packet buffer. Coupled with link aggregation and load balancing, AT-2931SX achieves the best performance of its class for server connectivity.

High Reliability
AT-2931SX Gigabit Ethernet fiber interface card comes with a variety of reliability features that are designed to maintain a connection as long as possible, including: link aggregation and failover.

Advanced Manageability
The priority queuing and Virtual LAN features offered by AT-2931SX 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.

AT-2931SX Gigabit Ethernet fiber interface card can also support up to 64 VLANs and four priority queues.

Key Features

Management Software
• VLAN support

• Link aggregation LACP

• Link aggregation smart switch

• Failover

Advance Properties
• Jumbo frames

• Checksum offloading

• Secured transmissions

• Adaptive interrupts

• TCP, UDP and IP checksum generation and check

• Priority queuing

• CPU task offload (to reduce CPU utilization level)

• Remote boot (PXE 2.1)

• Compliant with the Trade Agreement Act

• Microsoft certified drivers

• RoHS compliant

• Low-profile and standard height brackets included

• SNMP

• IPv6

• Windows Vista

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Specifications

Management Features
WMI
ACPI 1.1
PXE 2.1 Boot ROM
SNMP

Bus Type
PCI-x   2.2

Ethernet Standards
IEEE 802.1p   Quality of Service
IEEE 802.1Q   VLANs
IEEE 802.2   LLC
IEEE 802.3ac   MAC
IEEE 802.3ad   Link aggregation
IEEE 802.3az   1000SX
IEEE 802.3x   Flow control, auto-negotiation
IEEE 802.3z   1000X

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
SNMP

Available
Windows NT 4
Solaris x86
Solaris Sparc 32-bit
Solaris Sparc 64-bit
NetWare 5.x

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

Connectors
SC
LC
Optical receive sensitivity (max)   -12.5dBm
Transmit optical power (min/max)   -9.5/-1.5dBm

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   3.78 Watts (max)
Signaling voltage   3.3/5V

Status Indicators
1000	ON	1000Mbps link up
	OFF	1000Mbps link down
ACT	ON	Receiving/transmitting
	OFF	Not receiving/ not transmitting

Physical Characteristics
Dimensions   16.9cm x 6.4cm
(W x H)   (6.7") x (2.5")

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

Network Type
Auto-negotiation full-duplex flow control

Maximum Cabling Distances
Up to 500m with 850 nm multi-mode fiber cable
Up to 220m with 62.5/125 µm multi-mode fiber cable
Up to 500m with 50/125 µm multi-mode fiber cable

Network Controller
Broadcom BCM5703S

Ordering Information

AT-2931SX/AA-xxx
1000SX 64-bit PCI-x Gigabit Ethernet interface card

Where AA =   SC or LC

Where xxx =   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