Allied Telesis

AT-2931SX
64-bit Gigabit Fiber Adapter Cards

AT-2931SX
1000Base-SX 64-bit Gigabit
Fiber Adapter Card

High Performance
Allied Telesis' AT-2931SX is a high reliable
64-bit Gigabit Fiber Adapter card with 9KB
Jumbo frames support for network upgrade
needs. AT-2931SX helps to boost your Fast
Ethernet server throughput ten times to
1000Mbps. With the 1000Base-SX 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 96-KB 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 Adapter
comes with a variety of reliability features that
are designed to maintain a connection as
long as possible, including: link aggregation;
heterogeneous mixed-speed failover and PCI
hot plug.

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 network adapter and check specific data.

AT-2931SX Gigabit Ethernet Fiber Adapters can
also support up to 64 VLANs and 4 priority
queues.

Key Features

- Support up to 9KB Jumbo frames

- TCP, UDP and IP checksum generation
  and check

- Link Aggregation with 802.3ad (LACP)

- Adaptive Interrupts

- Load Balancing

- Priority Queuing

- CPU Task Offload
  (to reduce CPU utilization level)

- Remote Boot (PXE 2.0)

- Virtual LANs with 802.1q VLAN tagging

- RoHS compliant

LED Status Indicators
AT-2931SX

1000	ON	1000Mbit/s link up
	OFF	1000Mbit/s link down
ACT	ON	Receiving/Transmitting
	OFF	Not Receiving/Not Transmitting

PC Interface
Bus Interface

PCI 2.2	32/64-bit, 33/66MHz
PCI-X 1.0	64-bit, 66/100/133MHz

Signaling voltage 3.3V I/Os (5V tolerant)
Hot-Plug PCI Support

Network Connector
Auto-negotiation, full-duplex flow control

1000Base-SX SC connector

Fiber Type	Multi-mode fiber
Output Power	Min -9.5dBm
	Max -4dBm
Receive Sensitivity	Min -17dBm

Driver Support
• Windows 2000 and Windows XP
• Linux kernel 2.4.x
• Novell NetWare 5.x and 6.x

Technical Specifications
Maximum Cabling Distances
Up to 500 m with 850 nm multimode fiber cable
Up to 220 m with 62.5/125 um multimode fiber cable
Up to 500 m with 50/125 um multimode fiber cable

Power Characteristics
max.3.6w

Environmental Specifications
Operating Temp. 10°C to 55°C
Operating Humidity 10% to 95%

Physical Characteristics

Dimensions	2" x 7" x 0.5"
Weight	3.0 oz

Standards Compliance

IEEE 802.3z	Gigabit Ethernet Standards
IEEE 802.3x	with flow control/auto-negotiation
IEEE 802.1p	Class of Services
802.1q	VLAN tagging
802.1ad	LACP
802.3ab	Link Aggregation

Electrical/Mechanical Approvals
FCC/EN55022 Class B
VCCI
UL
CE

Ordering Information

AT-2931SX-xxx
1000Base-SX 64-bit Gigabit Ethernet adapter

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

Available in both standard- and low-profile versions

Connecting The (IP) World

Allied Telesis