



AT-2931SX

64-bit Gigabit Fiber Adapter Cards

AT-2931SX

1000Base-SX 64-bit Gigabit
Fiber Adapter Card

High Performance

Allied Telesyn's 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 Telesyn's 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

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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

USA Headquarters | 19800 North Creek Parkway | Suite 200 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895

European Headquarters | Via Motta 24 | 6830 Chiasso | Switzerland | T: +41 91 69769.00 | F: +41 91 69769.11

Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830

www.alliedtelesyn.com

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