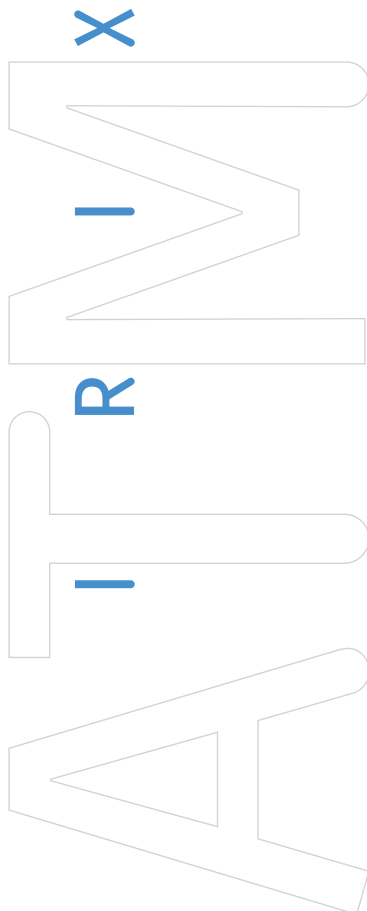


SGI™ ATM for IRIX®

Features

- Backbone, server, and desktop connectivity
- OC3 [155Mbps] and OC12 [622Mbps]
- Full-duplex on all ports simultaneously
- Dedicated bandwidth per connection
- Flexible access speeds



ATM Adapters from SGI Provide the Full Range of ATM Connectivity

Asynchronous Transfer Mode [ATM] is the right networking solution for applications that require guaranteed bandwidth. Applications that call for multiple, simultaneous streams of constant or nearly constant data rates, such as video on demand, are the most likely candidates for ATM.

ATM adapters from SGI provide the full range of ATM connectivity from 155Mbps [OC3] to 622Mbps [OC12] with several choices available depending on the level of media-focused optimization required by the end user.

Customers May Choose from:

- Four-Port ATM OC3 [155Mbps] in XIO form factor
- Single-Port ATM OC3 [155Mbps] in PCI form factor
- Single-Port ATM OC12 [622Mbps] in PCI form factor
- Single-Port ATM OC12 [622Mbps] in XIO form factor

Four-Port ATM OC3

The IRIS® Four-Port ATM OC3 network adapter includes two onboard RISC processors and four independent SONET OC3 ports [155Mbps per port for a total of 622Mbps per adapter]. The XIO ATM network adapter can provide full-duplex throughput on all ports simultaneously. The ports use multimode fiber-optic SC connectors. Depending on the applications, the network adapter can support up to 256 virtual channels [VCs] per port. It has 4MB of local memory per port shared between receive and transmit functions and 512KB of local control memory per port for VC tables, cell scheduling tables, and received cell buffers.

The IRIS Four-Port ATM OC3 network adapter also includes:

- A character device API for environments that require CBR traffic or other custom applications
- An ILMI management daemon, with SNMP MIB accessible through either ATM ports or other IP networking interfaces
- Firmware performance optimizations for transmitting MPEG-2 transport PDUs [tinygrams]

The IRIS Multiport ATM OC3 network adapter fully complies with versions 3.0 and 3.1 of the ATM Forum's ATM User-Network Interface standard. It supports ATM adaptation layer 5 [AAL5] over constant bit rate [CBR] and best-effort traffic [UBR] and all standard IP applications [through SVCs and/or PVCs], using best-effort traffic contracts in compliance with RFC 1577 [classical IP over ATM].

Single-Port OC3 and OC12 Adapters

Providing 622Mbps of full-duplex bandwidth to connect servers directly to ATM backbones, the SGI Single-Port OC12 ATM adapter is perfectly designed to manage the bandwidth demands of bulk networking data while still guaranteeing the quality of service needed for voice and video. With 155Mbps full-duplex bandwidth, the SGI Single-Port OC3 ATM adapter provides robust server and desktop connectivity.

The Single-Port OC3 and OC12 ATM adapters from SGI deliver full-duplex connectivity over multimode fiber [SC connector].

With support for 4,096 virtual circuits and 2MB of synchronous DRAM for buffering, the Single-Port ATM OC3 and OC12 adapters reach a new level in high-performance networking.

SGI ATM for IRIX Technical Specifications

Hardware	XIO Four-Port ATM OC3	PCI Single-Port OC3	PCI Single-Port OC12	XIO Single-Port OC12
Description	155 MMF adapter	155 MMF adapter	622 MMF adapter	622 MMF adapter
Connector	SC connectors	SC connectors	SC connectors	SC connectors
ATM support	AAL5 CBR, UBR SVC/PVC	AAL5, AAL1 [via AAL0] CBR, UBR, VBR, ABR SVC/PVC	AAL5, AAL1 [via AAL0] CBR, UBR, VBR, ABR SVC/PVC	AAL5, AAL1 [via AAL0] CBR, UBR, VBR, ABR SVC/PVC
Multimode fiber	Duplex 62.5µ/125µ, 2,000 m max., 10 dB loss	Duplex 62.5µ/125µ, 2,000 m max., 10 dB loss	Duplex 62.5µ/125µ, 2,000 m max., 10 dB loss	Duplex 62.5µ/125µ, 2,000 m max., 10 dB loss
Memory	4MB per port = 16MB	2MB	2MB	2MB
Supported platforms	SGI™ Origin™ 200 GIGAchanel™, the SGI™ 2000 series, the SGI™ 3000 family, and Silicon Graphics® Onyx2® systems	Silicon Graphics® O2®, Silicon Graphics® Octane®, SGI™ Origin™ 200, SGI Origin 200 GIGAchanel, the SGI 2000 series, the SGI 3000 family, and Silicon Graphics Onyx2 systems	SGI Origin 200, SGI Origin 200 GIGAchanel, and the SGI 3000 family	SGI Origin 200 GIGAchanel, the SGI 2000 series, and Silicon Graphics Onyx2 systems
Software				
ATM support	Supported	Supported	Supported	Supported
UNI 3.0/3.1	Supported	Supported	Supported	Supported
CLIP [RFC 1577]	Supported	Supported	Supported	Supported
MPOA	Not supported	Supported	Supported	Supported
SPANS	Origin 200 GIGAchanel, the SGI 2000 series, and Onyx2	Supported	Supported	Supported
LANE 1.0	Not supported	Supported	Supported	Supported
LANE 2.0	Not supported	Mandatory items supported	Mandatory items supported	Mandatory items supported



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