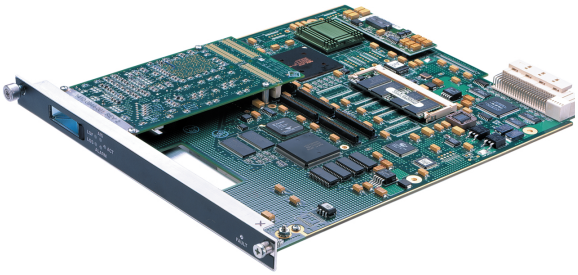
Lucent Technologies
Bell Labs Innovations

MAX TNT ATM OC3/STM-1 Card



The ATM OC3/STM-1 card for the MAX TNT™ WAN access switch and the APX 8000 concentrator provides direct access to ATM networks. The high-density ATM OC3/STM-1 card concentrates traffic from multiple lines and sends it directly to an ATM network—allowing carriers, CLECs, and other service providers to offer end users faster access to more services, without expensive hardware add-ons or lengthy software conversions.

Direct ATM access provides network scalability

With the ATM OC3/STM-1 card, service providers can connect directly to ATM switches, providing scalability to higher WAN transmission rates. End users benefit because access to ATM networks is immediate and more services are available.

- One OC3/STM-1
- Models available for copper (TNT-SL-UOC3CP-C), short (TNT-SL-UOC3SF-C), and long (TNT-SL-UOC3LF-C) fiber interfaces
- Maximum of two cards per chassis

Expanded capabilities deliver new service options

The ATM OC3/STM-1 card enables service providers to offer new service options to end users. Providers can support any combination of access lines and deliver cost-effective, scalable solutions that grow with end user demand.

- ATM Forum UNI 3.0/3.1 support
- Support for RFC 1483 (Multiprotocol Encapsulation over AAL 5)
- Protocol conversion between ATM (RFC 1483) and frame relay (RFC 1490)
- FRF.8 PVC mapping between ATM and frame relay networks

Hot-swappable architecture increases uptime

Because downtime is not an option for a network, the ATM OC3/STM-1 card can be installed and configured without inhibiting user applications. In addition, the ATM OC3/STM-1 card is interoperable with all existing ATM switching products.

- Hot-swappable
- Operations, administration, and maintenance (OAM) loopback

ATM routing and frame-to-ATM switching capabilities optimize network performance

The high-performing ATM OC3/STM-1 card provides Layer-3 routing and Layer-2 PVC switching among ATM and frame relay net works. Providers can optimize network performance and deliver more services to end users without installing additional cards.

- Layer-3 routing support
- Layer-2 PVC switching
- Layer-2 PVC switching

Lucent MAX TNT/ ATM OC3/STM-1 Card

MAX TNT/WAN ACCESS switch and APX 8000 concentrator



Specifications

Dimensions
5.6 in x 10.7 in [14.2 cm x 27 cm]

Weight
2 pounds [0.9 kg]

Power requirements
35 watts

Operating requirements
Temperature: 32°–104°F [0°–40°C]
Humidity: 0–90% (non-condensing)

Safety compliance
UL/CSA 1950, EN 60950, AS/NZS 3260

EMC/RFI compliance
FCC 15 Class B, VCCI Class II, AS.NZS 3548 Class B, EN 55022 Class B, EN 55082-1

Network compliance
FCC Part 68, FCC Part 15, IC CS-03

ATM Forum standards
ATM Forum UNI 3.0/3.1, ANSI T1.404, Bellcore TR-NWT-000499

Internet Standards
RFC 236, 791, 792, 1112, 1157, 1191, 1213, 1483, 1626, 1695, 1755

Transfer Rate
155 Mbps

Transmission Distance
LAN; WAN distances with use of repeaters

Card Interface
1 fiber interface (AMC SC-1) [Model TNT-SL-UOC3CP-C]

1 copper interface (RJ45) [Model TNT-SL-UOC3SF-C]

Cable Requirements
Connector Requirements:
Must meet JIS C 5973 standards

Physical Connectors:
Duplex SC transceivers

Connector Requirements:
Must meet JIS C 5973 standards

LASER Components (SM):
Class 1, 1,310 nm LASER diodes

Optical Input (avg.):
-32.5 dBm minimum, -8 dBm maximum (SM)

-32.5 dBm minimum, -14 dBm maximum (MM)

Optical Output (avg.):
-14 dBm minimum, -8 dBm maximum, 9/125 um (SM)

-19 dBm minimum, -14 dBm maximum, 62.5/125 um (MM)

Optical Wavelength:
1,261 nm minimum, 1,310 nm typical, 1,360 nm, maximum (SM),

1,270 nm minimum, 1,310 nm typical, 1,380 nm maximum (MM)

Features

Standard IP Routing
Performs IP datagram forwarding, header validation and processing, and ICMP processing

IP over ATM
Encapsulation of IP datagrams and routing on ATM networks using AAL-5 and LLC/SNAP, as recommended in RFC 1483 Traffic Type: UBR

UNI 3.0 and 3.1 Signaling
Meets UNI 3.0 and 3.1 standards

Virtual Circuits
360 active VCs per card

ANSI Standards
Complies with ANSI T1.105-1991 and ANSI T1E1.2/93-020R1

SDH (STM-1)
Complies with Synchronous Digital Hierarchy standards

Cables
Single mode

SNMP Monitoring
Traffic on the card is monitored by the SNMP agent (RFC 1157), which can in turn, be monitored, by any SNMP manager. MIBs include MIB-II (RFC 1213)

To learn more, contact your Lucent Technologies Representative, Authorized Reseller, or Sales Agent. Or, visit our Web site. www.lucent.com

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