

E1/T1 Access Module

PDH access for legacy media applications

MODULE



The T1 and E1 access modules offer an integrated transport of legacy PDH services over nimbra multiservice media network.

The E1/T1 Access Module for Nimbra 300 enables seamless integration of PDH services into the Nimbra multi-service network.

The E1 and T1 Access Modules for the Nimbra 300 series of multi-service switches offers a reliable transparent PDH transport service over a Nimbra multiservice network. E1 and T1 circuits can easily be provisioned between any points of a city network.

Media multiservice networking

Today, E1 and T1 are used in large quantities by telcos and network operators for voice and legacy data transport. The Nimbra platform enables integrated transport of T1 and E1 services, as well as IP/Ethernet data and native audio/video services over the same platform, allowing utilization of prior investments in legacy equipment as well as enabling new IP based services offerings.

100% guaranteed QoS

Each E1/T1 board provides 8 independent bi-directional G.703 compatible RJ48 ports. To guarantee a high-quality transport even at full network utilization, each circuit is independently switched over the Nimbra network and transported in secured and tailored logical channels with reserved bandwidth.

Each E1/T1 service carries its own timing derived from the source and due to the unique timing properties of a Nimbra network it is possible to keep the buffering delay at the output to a minimum, which provides for a very low end-to-end latency.

Unprecedented availability

Availability is a key requirement for all professional media applications. With built-in network restoration and support for in-service swap, the E1/T1 access modules offer trouble free carrier-class operations.

KEY FEATURES

8 bi-directional interfaces.

That can be independently switched within the Nimbra network. E1 and T1 ports are compatible with G.703

Transparent transport.

Each E1/T1 is transparently transported to its destination(s), timing information is derived from the source

Guaranteed QoS transport.

The E1/T1 Access Module is suitable for real-time services due to an unique resource allocation scheme based on hard resource allocation for each service

Hot swappable.

Hardware can be replaced during operation

Extremely low jitter and wander.

The module utilizes the unique synchronous timing performance of the Nimbra switches in order to deliver transport with extremely low jitter and wander, in conformance to ITU G.783 specifications.

Multi-service networking

When used together with Nimbra One/300 series switches, the E1/T1 Access Module provides integrated legacy PDH transport addition to IP/Ethernet, video and audio services in the same platform

Fast Protection Switching

1+1 protection on-board, with less than 50 ms switch-over time (optional feature, SW enabled).

TECHNICAL SPECIFICATIONS

Form factor: Plug-in unit for Nimbra 300 series, uses 1 slot

Interfaces:

E1: RJ48 120 Ω Twisted pair ITU-T G.703

T1: RJ48 100 Ω Twisted pair ANSI T1102

Services:

Switched E1/T1 Tunnel service

On-board 1+1 APS <50 ms switch-over time (optional)

Framing:

E1: ITU-T G.704 and unframed

T1: ANSI T1403 and unframed

DTM: DCAP-0

Fault management:

PDH: AIS, LOS

DTM: DUF, DOF

LED and Element Manager

Network Management:

SNMP: v3 MIB-II

Element Manager: Web GUI, CLI, Nimbra Vision

Maintenance:

Hot swap Loopback: Line side, System side

Regulatory Compliance:

FCC: Part 15 Class A

CE Mark: EN 300 386-2

NEBS: GR-63-Core, GR-1089-Core

Maintenance:

Hardware: Hot-swap

Firmware: Remote upgrade

Power consumption:

<15W

Environmental Conditions:

Operating Temperature: 0 to 40° C/32 to 104° F

Storage Temperature: -30 to 65° C/-22 to 149° F

Relative humidity: 10% to 90% (non-condensing)

Ordering information:

NPS0029-3001 E1 Access Module for Nimbra 300

NPS0030-3001 T1 Access Module for Nimbra 300

Net Insight AB (publ)

Phone +46 (0)8 685 04 00, info@netinsight.net, www.netinsight.net

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