

SHDSL Inverse Multiplexer 2000

SIM2000-24, SIM2000V-24

24 Port SDSL/SHDSL Inverse Multiplexer Module for IP DSLAMs

Overview

The SDSL Inverse Multiplexer Module has been designed to lower the cost of ownership of DSL broadband networks. The SIM2000 provides high-density SDSL aggregation with advanced features such as IP QoS and loop bonding. The SIM2000 is supported by Net to Net's IPD12000 and IPD4000 Native IP DSLAMs.

Net to Net's Access Multiplexers include Net to Net's DSL The Easy Way™ Packet based technologies, allowing for an Ethernet-based, plug and play DSL solution that does not require an interface/backhaul to an ATM network. IPQoS allows service providers to deploy real Quality of Service in an Ethernet-based IP network, without the need for complex configuration. Best of all, Carriers and Service Providers will realize significant reductions in capital expenditures in deploying the industry's only complete Ethernet based IP broadband solution.

The SIM2000-24 provides 24 individual single copper pair SHDSL lines, allowing for data rates ranging from 144Kbps up to 2.3Mbps symmetrical bandwidth per port at distances up to 24,000 feet (7,315 meters). The SIM2000-24 also supports Net to Net's Loop Bonding technology, which allows the service provider to bond up to 12 copper pairs for bandwidths up to 27 Mbps to a single subscriber, when using a Net to Net SHDSL CPE with loop bonding support, such as the SNE2020G-S or SNE2040G-S or using the 6 and 12 port MicroDSLAMs configured as CPEs, enabling anything from 2 to 12 lines to be bonded together delivering 2.3 Mbps per line.



Features

- Utilizes Net to Net's DSL The Easy Way™ Packet based Architecture
- DSL The Easy Way™ for plug-and-play configuration and operation
- Works in existing IPD12000 and IPD4000 native Ethernet IP DSLAMs as well as IPD12000E and IPD4000E.
- IPQoS provides QoS using traffic shaping and dynamic bandwidth allocation to support video and VoIP applications
- Supports Loop Bonding from 2 to 12 ports providing up to 27 Mbps over 12 bonded copper pairs.
- Works with Net to Net's SNE2000G-S (1 pair), SNE2020G-S (Loop Bonding, 2 pairs), and SNE2040G-S (Loop Bonding, 4 pairs), and the 6 and 12 port MicroDSLAMs configured as CPEs, enabling anything from 2 to 12 lines to be bonded together
- Embedded web-based management system for easy, platform-independent remote management via SNMP and HTTP
- Full 802.1Q VLAN support for easy to provision VPNs
- TC-PAM encoding for G.SHDSL compatibility
- Hot-swappable module

Specifications

Dimensions

12.75" (32.4cm) High x 1.15" (2.9cm) Wide x 16.75"(42.5 cm) Deep

Weight

5.6 lbs. (2.5 kg)

Power

-48V DC 1.3A supplied by host chassis

Interfaces

2 or 4 T1/E1 CAS connections to the PSTN (SIM2000V-24 only)
24 SHDSL Interfaces (1 RJ21 50-pin Telco; Software selectable CAP, 2B1Q, or TC-PAM encoding)

Standards Support

IEEE 802.3 Ethernet
ITU G.991.2 G.SHDSL

Bandwidth/Distance

Selectable to 144Kbps, 272Kbps, 400Kbps, 528Kbps, 784Kbps, 1040Kbps, 1552Kbps, 2064Kbps, 2320Kbps
Distances up to 24,000ft/7,320m

Regulatory Compliance

NEBS: GR-63-CORE, GR-1089-CORE
EMC: FCC Part 15, CSA/C108.8, EN55022, CE Marking
Safety: UL1950, CSA C22.2 No. 950, EN60950, IEC950
CE Marking

Operating Requirements

Temperature: 32°F to 122°F (0°C to 50°C)
Non operating temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 5% to 95%, non-condensing
Altitude: -200ft to 16,500ft (-60m to 5,000m)

Ordering Information

SIM2000-24 24 port SHDSL Inverse Multiplexer

