



Network Extender
Technologies

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ADSL/ADSL2/ADSL2+ Inverse Multiplexer Module

AIM24000-48, AIM24000-48B

Standard ADSL2+ delivers high-speed IP capability for high bandwidth Triple Play applications of voice, video, and high speed data

Overview

Net to Net Technologies' AIM24000-48 Inverse Multiplexer is a full density, non-blocking ADSL/ADSL2/ADSL2+ module that provides very high speed asymmetrical bandwidth for Net to Net Technologies IPD12000E and IPD4000E IP DSLAMs. The AIM24000-48 is a 48 port module that provides the latest features available for ADSL2+, including higher downstream rates up to 24 Mbps and upstream data rates up to 2 Mbps per line. The AIM24000-48 also provides backwards interoperability with standard ADSL2, or ADSL modems, preserving previous investments in these technologies.



Net to Net Technologies ADSL2+ technology is ideal for Triple Play networks. The non-blocking architecture of both the module and the IP DSLAMs guarantee that there is enough bandwidth available on every port for all services. This is especially important for IP video. IGMP Multicast support ensures the AIM24000-48 bandwidth is intelligently distributed throughout the DSLAM and the module, only allowing video streams to flow to the appropriate ports.

Other exciting features of the AIM24000-48 include: full backwards compatibility with ADSL and ADSL2; reach extended ADSL2 (RE-ADSL2); seamless rate adaption; improved power management; increased loop diagnostic capability, and support for features inherent in the ADSL2+ standard. These features are all significant improvements over the existing ADSL technology already deployed throughout the world.

The AIM24000-48 supports the Net to Net Technologies' DSL the Easy Way™ architecture, which include plug and play operation. The AIM24000-48 autoconfigures every port, including ADSL line mode (ADSL2+, ADSL2, ADSL,) and PVC information, making installation of Net to Net Technologies' ADSL2+ lines configuration free.

Features

- Utilizes Net to Net Technologies' DSL the Easy Way™ Architecture for plug and play operation
- 48 fixed ports supporting industry standard ADSL2+/ADSL2/ADSL
- Up to 24 Mbps downstream and 2 Mbps upstream
- Up to 18,000 feet/5,500m over a single copper pair
- IP Multicast for delivering IP Video over ADSL2+
- Supports ITU G.992.5 ADSL2+ standards
- Hot swappable module
- Embedded web-based management system for easy, platform-independent remote management
- Interoperable with standard subscriber ADSL2+, ADSL2, and ADSL modems
- Available with either Annex A, C, and H (POTS) or Annex B (ISDN) Voice support

Specifications

Dimensions

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

Weight

5.6 lbs (2.5 kg)

Power

-48VDC supplied by host chassis
1.4A per module

Interfaces

48 ADSL2+ Ports (2 RJ21 50-pin Telco)
2 IP DSLAM Backplane Interfaces

Standards Support

ITU G.992.5

Protocol Support

ATM PVC Support:
VPI/VCI defaults to 0/35
VPI range: 0-255; VCI range: 0-65535
Auto VPI/VCI detection
ATM Encapsulation:
RFC 1483/2684 LLC or VCM

Bandwidth/Distance

Asymmetric 24Mbps Downstream/2Mbps Upstream with selectable speed settings
Distances up to 18,000 feet (5.5km)

Regulatory Compliance

NEBS: GR-63-CORE, GR-1089-CORE
EMC: FCC Part 15; CSA/C108.8; EN55022;
EN55024 CE Marking
Safety: UL1950, CSA C22.2 No. 950; EN60950
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

AIM24000-48	48 port ADSL2+ Inverse Multiplexer for the IPD12000E and IPD4000E (supports Annexes A, C, and H)
AIM24000-48B	48 port ADSL2+ Inverse Multiplexer for the IPD12000E and IPD4000E (supports Annex B only)

