

Enhanced 14-slot Ethernet-based IP DSL Access Multiplexer 12000

IPD12000E

Video Ready, High-capacity Ethernet-based IP DSLAM for large scale Central Office DSL deployments

Overview

Net to Net Technologies' IPD12000E Enhanced DSL Access Multiplexer delivers even more functionality than Net to Net's original IPD12000 IP DSLAM. By adding a few exciting enhancements, Net to Net has greatly improved the current and future capability of Net to Net's Modular DSLAM family, at the same time providing 100% backwards compatibility with all IP DSLAM modules ever produced by Net to Net.

The IPD12000E features a 10-fold backplane capacity increase over the existing IPD12000 chassis, delivering up to 48 Gbps throughput, and allows the new chassis to provide a non-blocking architecture for even the highest bandwidth broadband access technologies, such as ADSL2+. Additionally, the addition of a second RJ-21 interface for every slot provides a 100% port density increase, and allows for incorporation of greater port density modules (up to 48 2-wire (DSL) connections or 24 4-wire (T1/E1) connections). In addition to these changes, the IPD12000E also provides removable mounting brackets that can be placed in increments of 1.45" up to 9.28" from the front of the chassis, allowing for multiple installation options in either 19" or 23" equipment racks.

Like its predecessor, the IPD12000E is engineered for efficient, high-speed IP data transport in a compact, fully fault-tolerant chassis. Supporting high density ADSL, ADSL2+, SHDSL, IDSL, T1/E1, and DS3/E3 access technologies, the Ethernet-based IPD12000E is the optimal line aggregation platform for today's advanced IP-based access networks. ILECs, CLECs, and IP Network Service Providers are able to cost-effectively offer all of today's advanced broadband services, such as IP video, high-speed broadband Internet, and Voice over IP. Most importantly, these services can be delivered over a pure IP network without the need for ATM.

Features

- Utilizes Net to Net's DSL The Easy Way™ Ethernet-based Architecture
- DSL The Easy Way™ delivers configuration free plug 'n' play operation
- 48 Gbps backplane capacity
- 12 Access Modules provide up to 576 subscriber lines per chassis (2880 lines per 7' equipment rack)
- Dual Redundant Multiplexer Uplink Modules
- Redundant 10/100, GigE (copper and fiber), T1/E1 (2xT1/E1), or DS3/E3 Uplink Interface Modules
- Redundant -48V DC or AC Power (with AC to DC power converter)
- Compact NEBS compliant chassis is only 9 Rack Units high
- Variable mounting options for flexible installations in 19" or 23" equipment racks
- All modules are hot swappable



Specifications

Dimensions

15.75" (40cm) (9 Rack Units) High x 17" (43.2cm) Wide x 18" (46cm) Deep

Weight

47 lbs (21.4 kg) (chassis only)

Power

AC — Requires External AC to -48 Volt DC Power Converter

DC — Dual -48 Volt DC Terminal Blocks

30 A maximum; 15 A typical*

*actual power consumption dependent upon chassis configuration

Interfaces

14 slot chassis:

- 12 Access Module slots (front)
- 2 Multiplexer Uplink Module slots (front)
- 24 RJ-21 Telco Connectors (rear)

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

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|-----------------|---|
| IPD12000E-19 | Enhanced IP DSL Access Multiplexer Chassis Supports (2) Uplink Modules & (12) Access Modules; ships with 19" variable rack mount brackets |
| IPD12000E-23 | Enhanced IP DSL Access Multiplexer Chassis Supports (2) Uplink Modules & (12) Access Modules; ships with 23" variable rack mount brackets |
| IPD12000E-RMB19 | 19" variable rack mount brackets for the IPD12000E |
| IPD12000E-RMB23 | 23" variable rack mount brackets for the IPD12000E |

