

SHDSL MicroDSLAM

SμD2002-6T, SμD2011-6T, SμD2003-12T, SμD2011-12T, SμD2002-6E,
SμD2011-6E, SμD2003-12E, SμD2011-12E

Feature-rich SHDSL MicroDSLAM fits in any Remote Terminal/Street Cabinet



Overview

Net to Net Technologies' SDSL MicroDSLAMs are the industry's first Native IP Remote DSLAMs that are environmentally hardened and small enough to fit in even the most crowded Remote Terminals/Street Cabinets. The MicroDSLAMs are the newest addition to Net to Net's DSL product family and is based on the DSL The Easy Way™ Ethernet-based architecture. These units are extremely feature rich, including Loop Bonding, SNMP Management, IP QoS, and a full 2.3Mbps symmetrical bandwidth available on every port. Built-in uplink options include both T1/E1 and 10/100 Ethernet for easy integration with other network elements.

SDSL provides the high-speed, symmetrical bandwidth required by the small business, SOHO, or telecommuter, and Net to Net's MicroDSLAM can bond copper loops together to increase total bandwidth to as high as 27Mbps at distances up to 12,000ft/3600 m. Loop bonding also allows for higher speeds at greater distances for end users further away from the Remote Terminal. With IP QoS included, Net to Net's MicroDSLAM enables the telco or service provider with additional service options and revenue opportunities.

The MicroDSLAMs can also be set to 'subscriber' mode, providing a 6 or 12 port loop-bonded CPE. This allows for up to 12 ports at data rates per port ranging from 144Kbps up to 2.3Mbps symmetrical bandwidth at distances up to 24,000 feet (7,315 meters). The Net to Net Technologies Loop Bonding technology allows the service provider to bond up to 12 copper pairs for bandwidths up to 27 Mbps to a single subscriber. This loop bonding capability can be used using a Net to Net SHDSL CPE with loop bonding support, such as the SNE2020G-S or SNE2040G-S or using a second 6 or 12 port MicroDSLAMs configured as a CPE.

Features

- Only 8.5" x 8.5" x 1.1" (2.8cm H x 21.6cm W x 21.6cm D) - small enough to fit in any remote terminal/street cabinet
- 6 or 12 ports of SDSL/SHDSL (2.3 Mbps symmetrical)
- Includes built-in backhaul using T1/E1 and/or Ethernet
- Supports Loop Bonding from ports providing up to 27 Mbps over 12 bonded copper pairs.
- Can be set to 'subscriber' mode, providing a 6 or 12 port loop-bonded CPE
- 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
- Environmentally Hardened for remote deployment
- Utilizes Net to Net's DSL The Easy Way™ Ethernet-based architecture
- DSL The Easy Way™ for plug-and-play configuration and operation
- Embedded web-based management system for easy, platform-independent management
- SNMP manageable for easy integration into existing management platforms

Specifications

Dimensions

6-port models: 1.1" H x 8.5" W x 8.5" D (2.8cm H x 21.6cm W x 21.6cm D)
12-port models: 1.1" H x 8.5" W x 11.4" D (2.8cm H x 21.6cm W x 29cm D)

Weight

6-port: 2.0 lbs. (0.9 kg)
12-port: 2.5 lbs. (1.1 kg)

Power

DC: Dual -48 Volt DC terminal blocks
6-port: estimated* 0.3 Amps
12-port: estimated* 0.6 Amps
AC: Requires separate AC power supply (sold separately)
*actual power consumption will vary by model and use

Interfaces

6 or 12 SDSL ports (RJ-21; G.SHDSL, CAP, or 2B1Q)
Ethernet (RJ-45) and/or T1/E1 (RJ-48C) data backhaul (varies by model)
T1/E1 (RJ-48C) (varies by model)

Standards Support

IEEE 802.3 Ethernet
IEEE 802.1p CoS
IEEE 802.1Q VLANs
IGMP Snooping - supports IGMPv1 and IGMPv2

Protocol Support

Tagging 802.1p
VLANs 802.1Q
Ethernet IEEE 802.3

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, IEC950, CE Marking

Operating Requirements

Temperature: -40°F to 149°F (-40°C to 65°C)
Non-operating temperature: -40°F to 158°F (-40°C to 70°C)
Humidity: 5% to 95%, non-condensing
Altitude: -200ft to 16,600ft (-60m to 5,000m)

Ordering Information

SμD2002-6T	6 Port SHDSL MicroDSLAM -DC; supports (1) T1 Data Uplink, (1) T1 Uplink
SμD2011-6T	6 Port SHDSL MicroDSLAM -DC; supports (1) 10/100 Ethernet Uplink, (1) T1 Uplink
SμD2003-12T	12 Port SHDSL MicroDSLAM -DC; supports (2) T1 Data Uplinks, (1) T1 Uplink
SμD2011-12T	12 Port SHDSL MicroDSLAM -DC; supports (1)10/100 Ethernet Uplink, (1) T1 Uplink
SμD2002-6E	6 Port SHDSL MicroDSLAM -DC; supports (1) E1 Data Uplink, (1) E1 Uplink
SμD2011-6E	6 Port SHDSL MicroDSLAM -DC; supports (1) 10/100 Ethernet Uplink, (1) E1 Uplink
SμD2003-12E	12 Port SHDSL MicroDSLAM -DC; supports (2) E1 Data Uplinks, (1) E1 Uplink
SμD2011-12E	12 Port SHDSL MicroDSLAM -DC; supports (1)10/100 Ethernet Uplink, (1) E1 Uplink

