PARADYNE by ZHONE

PRODUCT DATA SHEET

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

Paradyne's 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 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 Paradyne'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, Paradyne's MicroDSLAM enables the Telco or service provider with additional service options and revenue opportunities such as VoIP and IPTV.

The MicroDSLAMs can 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 Paradyne 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 as an access link using a Paradyne's SHDSL CPE with loop bonding support, such as the SNE2020G-S or SNE2040G-S or using a second MicroDSLAMs configured as a CPE, and providing a high bandwidth point to point bonded connection with redundancy.

Features

- DSL the Easy Way™ Architecture delivers plug 'n' play Loop Bonded lines with NO configuration requirements
- Small enough to fit in any remote terminal/street cabinet - only 8.5" x 8.5" x 1.1" (2.8cm H x 21.6cm W x 21.6cm D)
- IP QoS Support for Traffic Management and Prioritisation
- 6 or 12 ports of SDSL/SHDSL (2.3 Mbps symmetrical)
- 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 on creating a high bandwdith point to point bonded connection
- Works with Paradyne Technolgies 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
- NEBS compliant and environmentally hardened for remote deployment
- SNMP, Telnet, CLI and 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: 21W at 48vdc
12-port: 30W at 48vdc
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
SNMP MIB II

Protocol Support
Tagging 802.1p
VLANs 802.1Q
Ethernet IEEE 802.3
IP QoS - - Configurable Priority scheme 802.1p, DiffServ, IP address range, Rate Limiting

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

Regulatory Compliance
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

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For additional information on this or any Paradyne product or service, contact the office nearest you or dial 1.800.727.2396 (USA and Canada) or 1.727.530.8623; fax 1.727.530.8216. For international locations, visit the Paradyne web site at http://www.paradyne.com