



Network Extender
Technologies

NETWORKEXTENDER.COM

SHDSL Network Extenders 2000

SNE2000G-S, SNE2000G-P, SNE2000VG-S,
SNE2000VG-P



High speed packet-based SHDSL subscriber and provider units

Overview

SDSL/SHDSL provides up to 2.3Mbps of symmetrical bandwidth over single pair copper lines.

Net to Net Technologies' SDSL/SHDSL Network Extender subscriber units terminate SDSL/SHDSL lines from the IP DSLAM family of access multiplexers, including the IPD12000, IPD4000, SDSL MiniDSLAM and SDSL MicroDSLAM.

The SNE2000 provider units can also be used in a back to back deployment with the matching subscriber units to provide point to point configuration allowing broadband service providers to deploy single DSL lines economically. This provides an upgrade path for future deployments, using Net to Net's IP DSLAM. I protect investment provider units can be converter to subscriber units using the conversion kit and redeployed in the service providers network.

The subscriber units can also be used with multiport SDSL Network Extender Provider units, providing cost effective backhaul connections.

Because the SNE2000 is fully DSL The Easy Way™ compliant, configuration requirements are removed completely, allowing this device to be installed into the customer premise quickly. The SNE2000 uses the DSL The Easy Way™ Packet based architecture utilizing 100% packet-based technology for optimum throughput and reliability.

The SNE2000 products can run CAP, 2B1Q or the SHDSL (TC-PAM) encoding.

Features

- Utilizes Net to Net's DSL The Easy Way™ Packet based Architecture
- DSL The Easy Way™ for plug-and-play configuration and operation
- Supports eight (8) selectable data rates up to 2.3Mbps (symmetrical)
- Configuration-free operation minimizes truck roll/engineering site visits
- Connects directly to any Ethernet port on a PC or LAN
- Can be used with any Net to Net IP DSLAM, or in point-to-point configurations

Specifications

Dimensions

1.25" (3.2cm) High x 5.5" (14cm)
Wide x 4.5" Deep (11.5cm)

Weight

0.6 lbs (0.28 kg)

Power

100-125VAC @ 1.0A
200-240VAC @ 0.5A

Interfaces

1 SDSL Hybrid RJ11/RJ45 (CAP,
2B1Q or SHDSL (TC-PAM)
encoding)
1 Ethernet RJ45
DSL The Easy Way™ compliant

Standards Support

IEEE 802.3 Ethernet
ITU G.991.2 G.SHDSL

Protocol Support

Transparent Bridging

Bandwidth/Distance

8 switchable data speeds from the provider unit - 272kbps, 400kbps
528kbps, 784kbps, 1040kbps, 1552kbps, 2064kbps and 2320kbps
9 switchable data speeds from the DSLAM Management - as above
plus 144kbps

Regulatory Compliance

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

For units which support data and voice over SHDSL see the SNE2000V.

For 2-line (up to 4.6Mbps) and 4-line (up to 9.2Mbps) SHDSL loop bonding see the SNE2020 and SNE2040.

SHDSL (TC-PAM encoding)

SNE2000G-KIT-1	SHDSL (Data) Point-to-Point kit, includes one SNE2000G-S and one SNE2000G-P (TC-PAM encoding)
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SNE2000G-S	SHDSL (Data) Subscriber unit, G.SHDSL (TC-PAM encoding)
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SNE2000G-P	SHDSL (Data) Provider unit, G.SHDSL (TC-PAM encoding)
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SDSL (CAP encoding)

SNE2000-KIT-1	SDSL (Data) Point-to-Point kit, includes one SNE2000-S and one SNE2000-P (CAP encoding)
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SNE2000-S	SDSL (Data) Subscriber unit (CAP encoding)
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SNE2000-P	SDSL (Data) Provider unit (CAP encoding)
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SDSL (2B1Q encoding)

SNE2000Q-KIT-1	SDSL (Data) Point-to-Point kit, includes one SNE2000Q-S and one SNE2000Q-P (2B1Q encoding)
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SNE2000Q-S	SDSL (Data) Subscriber unit (2B1Q encoding)
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SNE2000Q-P	SDSL (Data) Provider unit (2B1Q encoding)
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Conversion Kits

SNE2000G-P-CNV	Conversion Kit from Provider Unit to Subscriber Unit consists of PROM and replacement label (TC-PAM encoding)
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SNE2000-P-CNV	Conversion Kit from Provider Unit to Subscriber Unit consists of PROM and replacement label (CAP encoding)
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SNE2000Q-P-CNV	Conversion Kit from Provider Unit to Subscriber Unit consists of PROM and replacement label (2B1Q encoding)
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