Lucent Technologies
Bell Labs Innovations

DSLMAX 20

The cost-effective DSLMAX 20 offers the benefits of a high-performance DSL access concentrator and integrated Layer-2/Layer-3 functionality in a single compact unit. It is ideal for campuses, small business complexes, apartment complexes, hotels and smaller central offices where relatively low-density DSL access services are required.

With support from 8 to 32 SDSL ports, the DSLMAX 20 provides the port density that managers of multi-dwelling units (MDUs), smaller carriers, and campuses need in a space saving design. The unbeatable combination of compact chassis, SDSL slot cards, T1/E1 or DS3/OC-3/STM-1 uplinks, high-throughput architecture and field-proven TAOS feature set makes the DSLMAX 20 the industry's best value in its class.

Cost-effective, compact design is flexible, expandable and reliable

The DSLMAX 20 is designed for low cost and high versatility. Because it occupies only 1u of standard Telco rack space, up to 48 units can be housed in a single 7 foot rack for a density of up to 1536 SDSL ports. The unit is also very easy to expand and customize, and can be managed remotely. A robust hardware platform featuring optional DC power supply redundancy ensures high service uptime.

- Ideal for MDUs, campuses, as well as smaller CLECs and Carriers/PTTs
- Two PCMCIA/PC flash memory expansion slots
- One DRAM expansion slot
- Dual 10/100 Mbps Ethernet ports
- High-speed SDSL line card with choice of 8 and 16 or 32 ports
- Choice of trunking modules, including DS-3 ATM, DS-3 Frame Relay, OC-3c/STM-1, 4 or 8 port T1, and 4 or 8 port E1
- Simple software upgrade procedures
- Integrated AC and DC power supplies with DC redundancy option
- Safety tested
- Compatible with Ascend DSLPipe-S, DSLPipe-HS, DSLPipe-HST, DSLPipe-HS1E and third-party SDSL CPE

Advanced hardware architecture delivers high throughput

RISC-based hardware architecture furnishes the high throughput necessary for delivering DSL services to an ever-expanding customer base.

- High-speed 260 MIPs, 200 MHz R5000 RISC CPU
- High-speed SDSL offers circuit speeds of up to 2.3 Mbps on each of 8 to 32 SDSL lines

TAOS and NavisAccess™ provide unequalled functionality, easy operation, network-wide compatibility and comprehensive management

An extended version of the Ascend True Access™ Operating System (TAOS) deployed in over 50,000 MAX access concentrators makes the DSLMAX 20 feature-rich, compatible and easy to use. Because it works with the Ascend NavisAccess solution, the DSLMAX 20 is also easy to manage.

- Integrated Layer-2 functionality supports Frame Relay switching, permanent virtual circuits (PVCs) and 802-3 bridging
- Integrated Layer-3 functionality supports IP and IPX routing
- RIP, RIP2 and OSPF support
- Integrated virtual private networking (VPN) option supports ATMP, L2TP, and PPTP tunneling protocols
- RADIUS and PAP/CHAP authentication
- Plug-and-Play capability
- Comprehensive SNMP management
- NavisAccess visual network management tools with support for NT and UNIX platforms

Hardware Specifications

Dimensions
1.75 in (1U) x 17 in x 12 in [4.5 cm x 43.2 cm x 30.5 cm]

Weight
10 lbs [4.6 kg]

Local Interfaces
Dual Ethernet 10Base-T/100Base-T ports, RS-232 serial port

WAN Trunking Modules
DS-3 ATM, DS-3 Frame Relay, OC-3c/STM-1, 4 or 8 port T1 (unchannelized), 4 or 8 port E1 (unchannelized)

Line card
8 or 16 port SDSL

Base Unit Slots
Single SDRAM card slot, Dual PCM-CIA card slots, dual expansion slots for line cards

Power Supply
Built-in AC or DC (redundancy available for DC supply)

Power Requirements
36 Watts, 47-63 Hz, 90-240 VAC, 270 BTU/hour, Processor 260 MIPs, 200 MHz R5000 RISC

Operating Requirements
Temperature: 32-104˚F [0-40˚C]
Altitude: 0-14,800 feet [0-4,500 meters]
Relative Humidity: 5-90% (non-condensing)

Compliance
NTRL/UL 1950, CSA C22.2 No. 950, TUV EN 60950, AS/NZS 3260, IEC 950/CB; FCC Part 15, ICES 003, EN55022, EN50082-1, ASNZS 3548, VCCI, CISPR 22; FCC Part 68, IC 03, CTRs, JATE, ACA

Compatible CPE
DSLPipe-S, -HS, -HST and HS1E from Ascend; Xpeed 300 SDSL NIC PCI Adapter Card (See www.xpeed.com for more information on Xspeed products.)

Software Specifications

PPP Termination
PPP over DSL, switched PPP

Layer 2 Support
Frame Relay switching

Layer 3 Support
IP/IPX routing, RIP, RIP2, OSPF

Layer 2/3 VPN
Frame Relay and ATM private virtual circuits (PVCs)

Tunneling Protocols
L2TP, PPTP, ATMP

Security
RADIUS, Extended RADIUS, Password Authentication Protocol (PAP), Challenge Authentication Protocol (CHAP), TACACS, TACACS+, Token card support

Firewall Protection
Firewall supported

PVC Termination
RFC 1483 (MPOA), RFC 1490 (MPOFR)

Plug-and-Play Support
Plug-and-play capability based on DCHP/TFTP

Management
SNMP, NavisAccess

Operating System
True Access Operation System (TAOS)

Managed by Navis™

To learn more, contact your Lucent Technologies Representative, Authorized Reseller, or Sales Agent. Or, visit our Web sites.
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