Polycom NetEngine 8000

Versatile, flexible voice and data integration

▼ Interoperable with Lucent Stinger™/TNT™, Nokia's Speedlink™ System, Promatory IMAS™, AccessLan PacketLoop™, Accelerated Networks AN-3200, and Copper Mountain CopperEdge™

▼ Provides for a seamless voice and data integrated SDSL solution

▼ Compatible with network transports including ATM, Frame Relay and T1/E1 leased lines

▼ Modular design supports wide range functionality from a T1 router to VoDSL IAD

▼ Supports multiple customer premise interfaces including POTS, Ethernet, Synchronous Serial and ATM-25

▼ Supports ADSL, SDSL, HDSL and T1/E1 leased line network connections

▼ Network management via RS-232 console post, Telnet or SNMP

▼ Customer support available worldwide

A voice and data integrated solutions. The Polycom® NetEngine™ 8000 multi-service access device is the integrated solution that allows both voice and data applications access to the speeds, performance and reliability of ADSL, SDSL, T1, and E1. With "always on" access, both voice services and data applications like Web browsing, file transfers and e-commerce can now travel from the customer premise at the "speed of DSL" over the same single copper pair efficiently and economically. For small and medium-sized businesses, branch offices or remote connectivity, NetEngine 8000 is the ideal solution for integrating both voice and data services seamlessly over SDSL without the additional line costs.

The modular design reduces operating costs while increasing network efficiency. The NetEngine 8000 integrates voice and data into packets and onto a variety of network transports including ATM, Frame Relay and TI/EI leased lines. Its unique modular design is ideal in numerous network applications and can span a wide range of functionality from a T1 router to a VoDSL IAD. By supporting various customer premise interfaces including POTS, Ethernet and ATM-25, and network connections including ADSL, SDSL, HDSL and T1/E1, the NetEngine 8000 provides a flexible and cost-effective solution for accessing voice and data applications over DSL. Now, with the NetEngine 8000, any small and medium sized enterprise or branch office can have access to the speed and performance of DSL over the existing copper wire.

Plus, with Polycom NetEngine 8000, cost concerns associated with replacing equipment as network service architecture evolves, disappear. The NetEngine 8000 has wide interoperability with the industry-leading DSLAM manufacturers, making it the most cost-effective solution available today.

Network management made easy. The NetEngine 8000 makes network management simple. The menu-driven management interface is available via console over Ethernet or SDSL link using Telnet. In addition, the NetEngine 8000 supports SNMP, and with the TFTP, software updates are easy to do.

Put NetEngine 8000 to work in your business communications—and start integrating voice and data seamlessly without additional line costs.

POLYCOM®

Polycom NetEngine 8000 can provide versatile, multi-service network access for critical voice and data applications:

▼ **For small and medium-sized enterprises**

▼ **For branch offices**

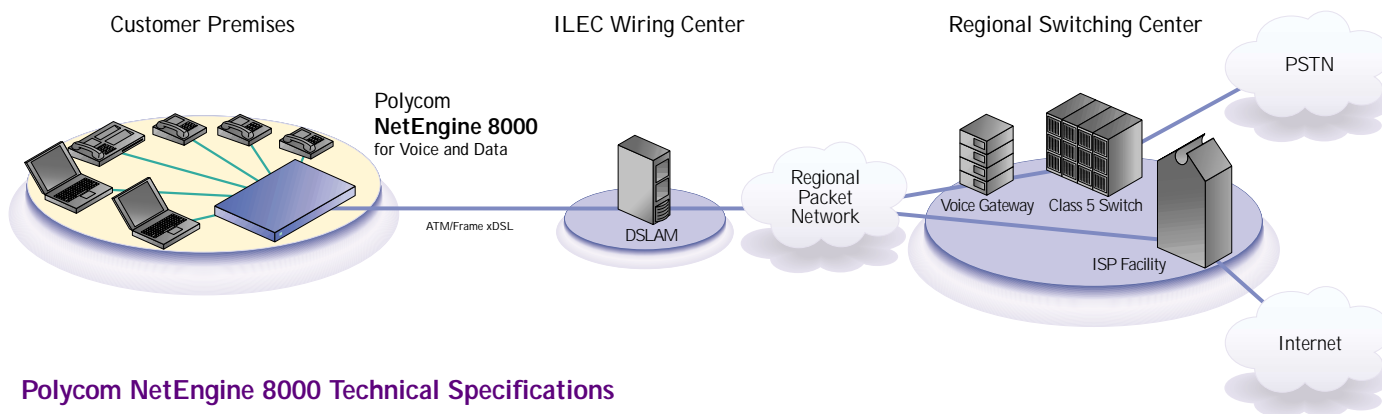▼ **For remote office connectivity**

The solution for high-speed voice and data applications over DSL

▼ **Any integration of voice and data over a public or private network**

▼ **Web browsing**

▼ **File transfers**

▼ **E-commerce**

▼ **Web hosting**

▼ **Videoconferencing**

▼ **Any client-server application**

The versatile design allows the NetEngine 8000 to function as a:

▼ **Inverse Multiplexer**

▼ **ATM or Frame Relay Access Router**

▼ **Integrated access device (IAD)**

▼ **Mini-DSLAM**

▼ **Inverse Multiplexer**

▼ **ATM or Frame Relay Access Router**

Driving Voice and Data Over DSL

Customer Premises   ILEC Wiring Center   Regional Switching Center

Polycom
NetEngine 8000
for Voice and Data

ATM/Frame xDSL

DSLAM

Regional
Packet
Network

PSTN

Voice Gateway   Class 5 Switch

ISP Facility

Internet

Polycom NetEngine 8000 Technical Specifications

Customer Premise Interfaces
POTS

4-Port or 8-Port FSX modules (up to 24-ports)

Ethernet

10BaseT Ethernet

USI

Universal Serial Interface—RS-232, RS-530, RS-422 and V.35

ATM-25

25.6 Mbps ATM

Network Connections
ADSL

Multiple full-rate DMT modules available

SDSL

Single pair 2B1Q interface, up to 2.3 Mbps to reach distances over 20,000 feet. Operates in HDLC, ATM framed or ATM unframed modes

HDSL II

Future

T1

ANSI T1.403 (1989), Bellcore TR-54016

E1

ITU G.703

Configuration and Network Management
RS-232 menu-based user interface (Shielded RJ-11 Connector)

Telnet and SNMP

TFTP download/upload of software, configuration files and scripts

Dynamic event and history logging

LAN Support
IP

Transparent bridging

Concurrent routing and bridging

RIPv1, RIPv2

DHCP

WAN Support
ATM—RFC 1483

Frame Relay—RFC 1490

HDLC

PPP over ATM—RFC 2364

IP Address Translation
NAT

Memory
SDRAM

8 Mbytes SDRAM, 100-pin DIMM Socket for additional SDRAM

Flash ROM

2 Mbytes standard, up to 4 Mbytes optional

Processors
MPC860 SR

MPC860T

MPC860P

50 Mhz MPC855T

Physical Dimensions
Dimensions (H x W x L)

1.75 X 17.5 X 10.56 in. (4.44 X 44.45 X 26.82 cm)

Power Supply
90 to 250 VAC, 50/60 Hz; 50 Watts max.

◆ POLYCOM®

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