Polycom NetEngine 6000 IAD Family

Highly Interoperable, cost effective voice and high-speed data integration

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

▼ **Seamless voice and high-speed data integration over SDSL (NetEngine 6300) or T1/E1 (NetEngine 6200)**

▼ **Supports symmetrical data rates from 144 Kbps to 2.3 Mbps and multiple customer premise interfaces including POTS, 10/100BaseT Ethernet**

▼ **Compatible with WAN Network Transports including ATM and Frame Relay**

▼ **Eight Port POTS interface with Loop Start or Ground Start**

▼ **Dynamic and Static IP Routing and Bridging capabilities**

▼ **DHCP and NAT to support IP address management**

▼ **Management capabilities including Telnet, SNMP and TFTP**
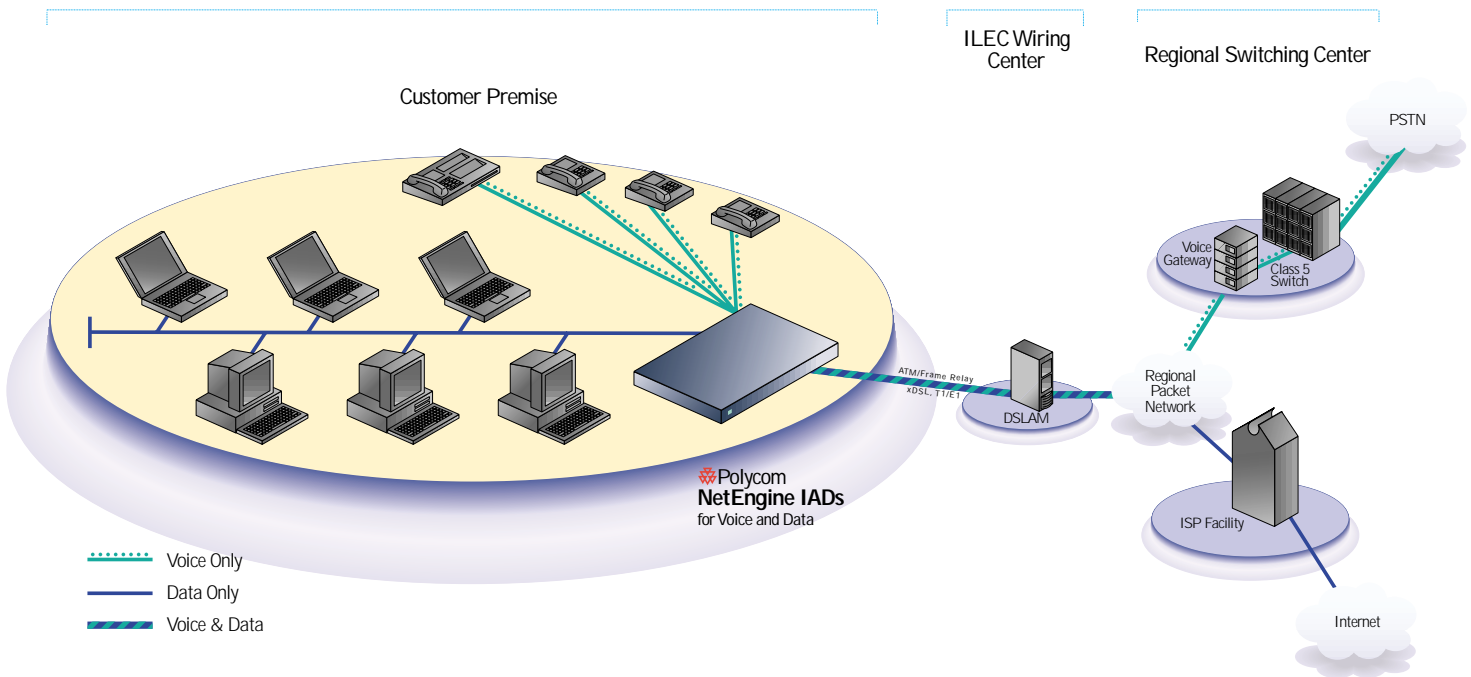
▼ **Customer support available worldwide**

Cost effective voice and data solution. The Polycom® NetEngine™ 6000 IAD family is leading the way in providing a highly-interoperable cost-effective bundled voice and data service solution. The NetEngine IAD family is uniquely designed for interoperability and today is compatible with industry-leading DSLAM manufacturers. With the NetEngine 6000 IAD family, small and medium-sized enterprises can now cost-effectively experience quality voice services and high-speed data connections, previously only profitably available to larger business customers. Using the existing copper infrastructure, the NetEngine 6300 IAD provides voice services and high-speed Internet or corporate network connectivity over SDSL lines. The NetEngine 6200 IAD offers access to those identical services utilizing T1/E1 leased lines. With the NetEngine IADs, bandwidth usage is also optimized. The IADs prioritize voice packets and dynamically allocate bandwidth between voice and data services. This ensures that end-users continue to experience the audio quality they come to expect while maintaining access to high-speed data connections.

Quality voice services. Local telephone service through the NetEngine 6000 IAD family is identical in quality and features to those available through the conventional circuit-switch voice network. Subscribers will continue to experience the voice quality they come to expect, along with Centrex and CLASS features including Caller ID, Call Waiting and Three Way Calling. Also, the NetEngine IAD has been extensively tested to ensure support of existing modems and telephones including key systems, fax machines and analog telephones.

High-speed data connections. The productivity that comes from high-speed Internet or corporate network connections is now delivered with the NetEngine IAD. Whether your WAN interface is SDSL or T1/E1, or your network transport is ATM or Frame Relay, the NetEngine IAD is compatible. In addition, the NetEngine is designed to support a 10/100BaseT Ethernet interface and is capable of dynamic and static IP routing and bridging.

Simple to install, easy to manage. The NetEngine 6000 IAD family is designed for simple installation and easy remote network management. Once connected to the network, the IAD will auto-detect the hardware and software parameters and self-configure. Through Telnet, SNMP and TFTP, the NetEngine IAD can be remotely monitored, provisioned, tested, and upgraded without the cost of an on-site visit.

POLYCOM®

Driving Voice and Data Integration

Customer Premise

ILEC Wiring Center

Regional Switching Center

PSTN

Voice Gateway

Class 5 Switch

ATM/Frame Relay
xDSL, T1/E1

DSLAM

Regional Packet Network

ISP Facility

Internet

Polycom
NetEngine IADs
for Voice and Data

········ Voice Only
———— Data Only
///// Voice & Data

Polycom NetEngine 6000 IAD Family Technical Specifications

Physical Interfaces
Customer Premise Interface -
  10/100BaseT Ethernet

8 Port POTS

WAN Interfaces -

2 Wire SDSL (NetEngine 6300),
  Symmetrical data rates from 144 Kbps to
  2.3 Mbps in increments of 8 Kbps
  Transmission range up to 25,000 feet

T1/E1 (NetEngine 6200)

Bridging and Routing
Dynamic and static IP Routing and Bridging

IEEE 802.1d Bridging

Spanning Tree Protocol

RIP1 and RIP2 Information Routing Protocol

Internet Control Message Protocol (ICMP) for
  IP packet processing

Network Address Translation (NAT) allowing
  IP addresses to be shared

DHCP for management of LAN addresses

WAN Protocols
ATM -
  Eight Permanent Virtual Circuits (PVCs)
  Multiprotocol Encapsulation over ATM
  (RFC 1483)
  PPP over ATM (RFC 2364)

Frame Relay -
  Eight Data-Link Connection Identifiers (DLCI)
  Multiprotocol encapsulation over Frame Relay
  (RFC 1490)

HDLC (High-Level Data Link Control)

Cisco compatible HDLC

Point-to-Point (PPP)

Management and Configuration
ASCII-based menu interface for system
  configuration and monitoring

Telnet for remote access to menu-based interface

SNMP for monitoring, controlling and managing
  configurations, statistics, performance and
  security

Trivial File Transfer Protocol (TFTP) for
  software upgrades

Environmental
External Power Supply -
  80-250 VAC
  10 WATTS maximum power consumption

0-50 C operating range

10% to 90% non-condensing humidity

LED Display -
  Power, SDSL or T1/E1 connectivity and
  activity, and LAN connectivity and activity

Physical Dimensions (W x L x H) -
7.1″ (18cm) x 7.9″ (20.1cm) x 1.6″ (4.1cm)″

Stackable and wall mounted

POLYCOM®

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