

# NetEngine™ IAD Family



NetEngine IADs offer Service Providers the broadest interoperability with industry leading media servers

NetEngine  
for Voice and Data



# The Verilink NetEngine IAD Family

Verilink's NetEngine Integrated Access Devices (IADs) deliver the ideal combination of comprehensive, robust voice and data features in a cost-effective package. Designed to meet CLASS-5 call completion rates of 99.99 percent, NetEngine IADs provide voice quality that is virtually indistinguishable from toll quality. One IAD may combine a channel bank, IP router, firewall, NAT, PAT, and DHCP server and may provide up to 24 channels that can be divided between voice and data according to customers' needs. Designed for small to medium sized businesses, the NetEngine family of IADs provides the best of value with high-quality products offering the broadest interoperability with industry-leading Voice Gateways and DSLAMs and allows an easy migration to voice services from broadband data-only services. This makes it possible for service providers to offer a full spectrum of broadband VoIP, VoATM, VoDSL, and TDM solutions over T1/E1, ADSL, SDSL, and G.shdsl at affordable prices. The wide industry interoperability supported today eliminates concerns associated with having to replace network CPE when network architecture changes.

## ADSL IADs

NetEngine ADSL IADs provide the ability to offer voice and data services over a single ADSL WAN interface and come equipped with an integrated router and firewall, reducing the need for additional equipment expense.

### [NetEngine ADSL IAD Highlights](#)

- 2, 4, or 8 POTS ports with ADSL WAN interface
- Integrated lifeline POTS support via baseband failover
- Integrated splitter
- Support for VoATM and VoIP
- Dynamic and Static IP Routing and Bridging capabilities
- 10/100Base-T Ethernet LAN interface
- 6102h: Wide operating temperature range for Outdoor/ Garage residential installs
- Dynamic bandwidth allocation and prioritization for voice and data traffic
- DHCP and NAT to support IP address management

## G.shdsl IAD

The NetEngine 6500 Series delivers high-quality voice and data over a single pair G.shdsl line, making it ideal for international markets as well as the North American market.

### [NetEngine G.shdsl IAD Highlights](#)

- 4 or 8 POTS ports with G.shdsl WAN interface
- Enhanced bandwidth and reach
  - 2.3Mbps to 11Kft
- Support for VoATM and VoIP
- Dynamic and Static IP Routing and Bridging capabilities
- 10/100Base-T Ethernet LAN interface
- Dynamic bandwidth allocation and prioritization for voice and data traffic
- DHCP and NAT to support IP address management

## SDSL IADs

A NetEngine SDSL IAD is a sound and flexible investment because it delivers robust features such as routing, bridging, NAT, and DHCP all in one unit with a 10/100Base-T LAN interface. NetEngine IADs also optimize bandwidth usage. The IADs prioritize voice packets and dynamically allocate bandwidth between voice and data services, ensuring that end-users continue to experience the audio quality they come to expect while maintaining access to high-speed data connections.

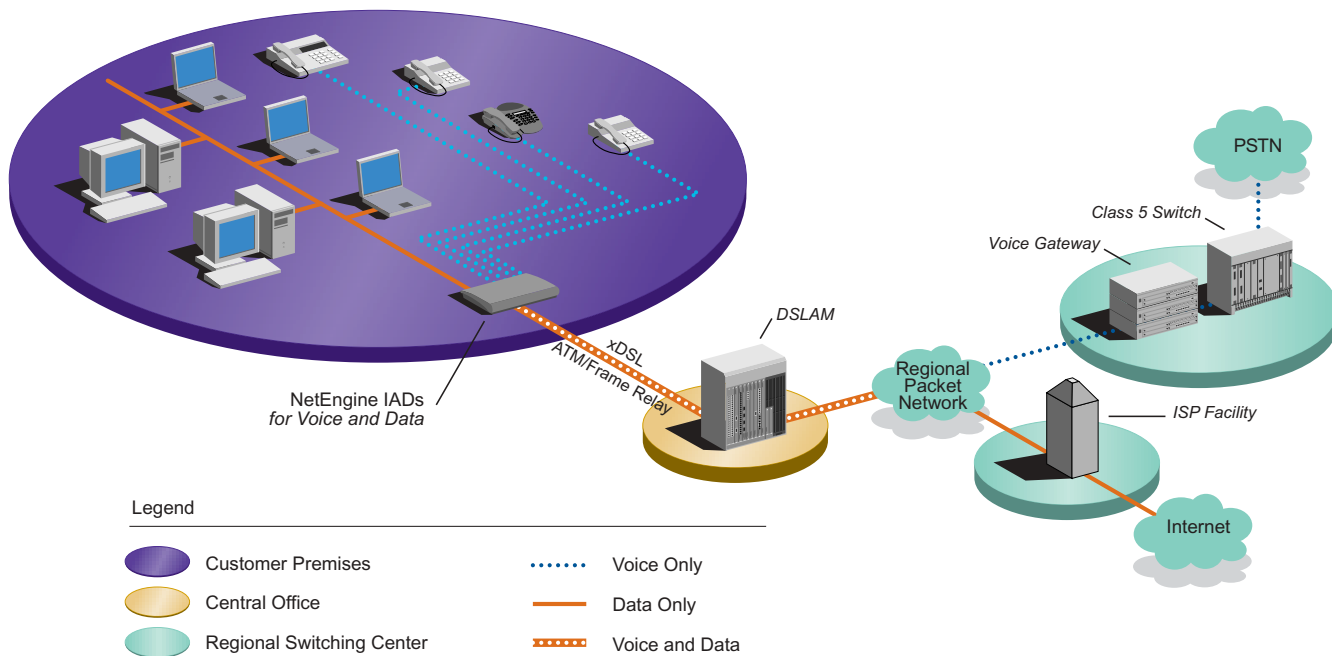
### [NetEngine 6300 SDSL IAD Highlights](#)

- Seamless voice and high-speed data integration over SDSL
- Supports symmetrical data rates from 144 Kbps to 2.3Mbps and multiple customer premises interfaces including POTS, 10/100Base-T Ethernet
- Supports ATM and Frame Relay
- 8 Port POTS interface with Loop Start or Ground Start
- DHCP and NAT to support IP address management

### [NetEngine 7300 SDSL IAD Highlights](#)

- 16 or 24 derived voice ports with SDSL WAN interface
- Universal Serial Interface (USI) – V.35, EIA530/RS449
- Single Amphenol Connector for POTS lines
- Universal power supply
- DHCP and NAT to support IP address management





## NetEngine T1 IADs

By converging voice and data access in the same line, NetEngine Channelized T1 IADs give service providers substantial cost savings over separate installations. Because it maximizes existing infrastructure in the network, channelized T1 requires less wiring and fewer CPE. One channelized IAD combines a channel bank, IP router, firewall, NAT, PAT, and DHCP server, and provides up to 24 channels that can be divided between voice and data according to customers' needs. Once the channels have been allocated to voice and data service, available bandwidth is dedicated and guaranteed—and can be reallocated anytime.



### NetEngine Channelized T1 IAD Highlights

- 8 to 24 POTS ports
- Channelized T1 WAN interface
- 10/100Base-T Ethernet LAN interface
- Dynamic and Static IP Routing and Bridging capabilities
- Integral Firewall
- Built-in CSU functionality
- Frame Relay and ATM support
- Frame Relay interworking: FRF .5 & .8
- NAT, PAT, CHAP support
- Convertible to an ATM derived voice IAD with 3 simple remote keystrokes from the NOC. No truck roll or software upgrade required.

## NetEngine T1/E1 ATM IADs

The NetEngine 6200 IAD offers access to voice services and high-speed Internet or corporate network connectivity utilizing T1/E1 leased lines. A carrier-class unit with toll quality voice, NetEngine 7200 features 16 or 24 derived voice lines and a 10/100Base-T interface for high-speed data connections seamlessly via a single T1 WAN interface. With the NetEngine IADs, bandwidth usage is also optimized. The IADs prioritize voice packets and dynamically allocate bandwidth between voice and data services.

### NetEngine T1/E1 ATM IADs Highlights

- Seamless voice and high-speed data integration over T1/E1
- Supports symmetrical data rates up to full T1/E1 speeds and multiple customer premises interfaces including POTS, 10/100Base-T Ethernet
- Compatible with WAN Network Transport Layers including ATM
- Frame Relay interworking: FRF .5 & .8
- 8 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

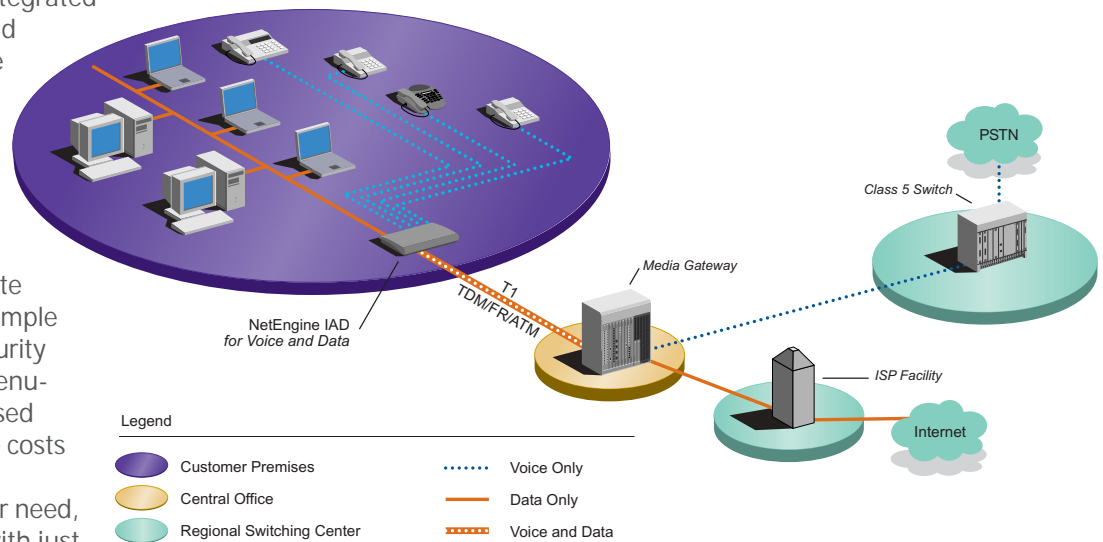


### NetEngine 7200 T1 ATM IADs Highlights

- 16 or 24 derived voice ports with T1 WAN interface
- Dynamic and Static IP Routing and Bridging capabilities
- Universal Serial Interface (USI) – V.35, EIA530/RS449
- Single Amphenol Connector for POTS lines
- Frame Relay interworking: FRF .5 & .8
- Universal power supply
- DHCP and NAT to support IP address management

# Versatile, Reliable, Cost Effective

Boasting features such as an integrated firewall and complete routing and bridging, NetEngine IADs are the most versatile and well rounded equipment suited to the needs of any service provider. Remote diagnostics, provisioning, and easy upgrades dramatically ease the deployment process and eliminate the need for costly truck rolls. Simple installation, valuable built-in security features, and the easy to use menu-driven interface all mean increased productivity and reduced service costs paving the way for enhanced profitability. No matter what your need, there is a Verilink IAD solution with just the right combination of features.



## SDSL DSU and Router

The NetEngine 3300D SDSL DSU and 3300R SDSL Router enable small and medium-sized businesses, branch offices, and telecommuters to upgrade their Internet service at an affordable price—without compromising existing networks. Through a simple customer premises installation, it's possible to upgrade to SDSL without replacing existing equipment. These NetEngine products make network management and configuration easy. The simple, menu-driven interface is available directly via console, locally over Ethernet, or remotely over the WAN using Telnet. They also support SNMP, and with TFTP, software upgrades are done seamlessly. The NetEngine 3300R and 3300D both feature wide interoperability with the leading DSLAM manufacturers and support Frame Relay and ATM network access.



### 3300D DSU and 3300R Router Highlights

- 3300D: Ideal when replacing T1/E1 data services with SDSL
- 3300D: Supports Nx64 Kbps rates up to 23Mbps
- 3300R: Supports Frame Relay and ATM-based data networks
- Supports the broadest range of symmetrical data rates from 144 Kbps to 2.3 Mbps
- Offers static and dynamic IP routing and bridging capabilities
- Network Address Translation (NAT) allows a single IP address to be shared among multiple users
- DHCP provides for easy management of LAN addresses
- Managed via RS-232 Console Port, Telnet or SNMP

## BRI IADs

Sporting features such as Emulated Loop Control Protocol (ELCP), and the widest interoperability with DSLAM and voice gateway vendors, the NetEngine BRI IADs are ideally suited for service providers offering voice over broadband services internationally where end users are using ISDN lines as their primary phone service. Whether service providers are deploying ADSL Annex A or Annex B, the NetEngine 6104i gives end users high-quality voice and data over a single POTS or ISDN line respectively. The NetEngine 6504i supports G.shdsl enabling service providers to capitalize on the advantages of higher bandwidth and greater reach, as compared to legacy SDSL.



### NetEngine 6104i/6504i BRI IAD Highlights

- 4 S0 ISDN BRI ports with ADSL or G.shdsl WAN interface
- Support for up to 8 phone extensions
- PS1 and PS2 powering for ISDN phones
- Enhanced bandwidth and reach (G.shdsl)
- 10/100Base-T Ethernet LAN interface
- Router/Bridge
- DHCP and NAT to support IP address management



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