

NETWORK AS A SERVICE MADE EASY

ProCloud Subscription Services

NETVANTA 6250 HIGH PERFORMANCE VOICE GATEWAY

Benefits

- ADTRAN's highest performing IP Business Gateway for delivering business services
- Seamless voice and data integration over VoIP-based network architectures
- Includes five routed Ethernet interfaces
- Up to 24 analog POTS interfaces
- Perfect for multi-T1 through higher bandwidth Ethernet services
- VQM for advance troubleshooting
- QoS ensures priority for voice traffic
- Packet Capture (PCAP) for easy troubleshooting
- Designed to support both legacy and SIP PBX connectivity
- Compatible with industry-leading softswitches and call agents
- Dynamic bandwidth allocation affords more efficient utilization
- Standardized voice compression requires less bandwidth per voice call
- Integral full-featured business class IP router for data support and Internet access
- Full featured SBC for robust network security and voice interoperability
- Supports 802.1q Virtual LAN (VLAN) Trunking
- NAT for IP address concealment
- Feature-rich AOS
- Rugged metal case
- Optional battery backup
- Industry-leading, five-year warranty (North America)
- Dual AC/DC power supply

Overview

The NetVanta® 6250 IP Business Gateways are designed for carrier Ethernet and Voice over IP (VoIP) networks delivering high speed services to the customer premises. These products feature all of the same robust routing and voice features of the market leading Total Access® 900e IP Business Gateways, along with a host of new features and functions that enable cost effective, reliable IP service delivery. These devices use the ADTRAN® Operating System (AOS) to simplify management and administration. Multiple models offer flexibility for various applications from PRI delivery and trunking services to Hosted IP PBX offerings.

The NetVanta 6250 is designed for legacy T1 access as well as emerging Ethernet delivery. User interfaces include:

- Five routed Ethernet ports (one Gigabit/SFP and four Fast Ethernet) for WAN/LAN connectivity, and access to the NetVanta 6250's router
- One USB interface for wireless backup or local storage
- Four T1 ports for network connectivity or legacy PBX connection
- Up to 24 FXS analog voice ports, up to nine FXO

This solution can be coupled with a NetVanta Power over Ethernet (PoE) switch to provide connectivity to a variety of network devices and personal computers, as well as to power IP phones and Wireless Access Points (WAPs).

VoIP Gateway

The NetVanta 6250 Series utilizes SIP or MGCP for VoIP applications, providing interoperability with industry-leading softswitches, feature servers, and gateways. Acting as a gateway, these devices convert IP signaling from the carrier into traditional TDM analog and digital voice

services. This functionality allows the NetVanta 6250 to deliver voice services to both IP phones and traditional telephony equipment simultaneously. For customers implementing a hosted PBX or IP Centrex service, the NetVanta 6250 is ideal for providing customers additional analog ports necessary to support their remaining analog phones, fax machines, or modems. The NetVanta 6250 supports many popular calling features such as caller ID, call hold, forward, transfer, and call waiting. Voice Activity Detection (VAD) and silence suppression are supported and the flexible design allows the NetVanta 6250 to deliver high quality voice service assurance.

Enterprise Session Border Control (eSBC)

The NetVanta 6250 also can provide eSBC functionality delivering a truly converged application platform at the customer premises. This feature is becoming mandatory in today's service deployment to normalize, secure and troubleshoot the SIP to SIP communication between a carrier network and the customer's SIP compliant equipment. The strength of the NetVanta 6250 in your VoIP service deployment is its ability to grow as your services expand.

Local and Remote Survivability

In addition, the NetVanta 6250 can act as a registrar and Back-to-Back User Agent (B2BUA) or as a SIP-transparent proxy to facilitate remote survivability and Network Address Translation (NAT) traversal. In the event of a service interruption on the wide area network or if the carrier's call agent were to become unavailable, calls may continue locally at the customer premises between IP-based or analog phones. In addition, local call survivability to the PSTN is provided via the optional FXO, or over one of the T1/PRI interfaces.





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Superior Call Quality

Inherent Quality of Service (QoS) methods ensure appropriate classification and prioritization of VoIP traffic. These methods include low latency, weighted fair queuing, class-based weighted fair queuing, Voice Quality Monitoring (VQM) captures Mean Opinion Score (MOS), jitter, delay, and packet loss statistics necessary to troubleshoot VoIP calls over your network to help ensure superior call quality. The AOS packet capture feature is used with network monitoring to effectively capture data packets as they traverse the network. As data packets pass through an interface on which the packet capture feature is enabled, a packet-capture monitors the traffic and captures the header and payload of specified packets as they pass through. The captured packets are then exported and stored in either flash memory or CompactFlash® storage, and can then be reviewed to determine the cause of network problems, identify security threats, and to maintain efficient data transmission over the network.

Security/Routing

The NetVanta 6250 uses the AOS to provide a stateful inspection firewall; NAT; DHCP server/client; and feature-rich, standards-based, IP routing functionality including BGP, OSPF, and RIP routing protocols.

Management

The NetVanta 6250 can be remotely managed with the ability to discover devices, make mass configuration changes or firmware upgrades, backup/restore configuration, and generate inventory reports for asset management. ADTRAN's network management capability also offers VoIP VQM and reporting, SIP ladder diagram, as well as an industry leading, easy-to-use, Graphical User Interface (GUI).

Reliability

NetVanta 6250 products are housed in a rugged metal enclosure; available in wallmount, rackmount, and desktop mountings; and offer a battery backup system for up to eight hours of uninterrupted service upon a customer-site power outage. NetVanta 6250 is backed by an industry-leading, five-year warranty and ADTRAN's world-class technical support.



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