



NetVanta 7100

Converged IP Office in a Box

Product Features

- IP PBX (50 SIP phones)
- VoIP/PSTN Gateway
- Voice mail (12 hours, eight ports)
- Multilevel auto attendant
- Dial by name directory
- Chassis Includes:
 - 24 10/100 Ethernet (802.3af PoE) ports
 - Two analog station (FXS) ports
 - Two analog trunk (FXO) ports
 - Two 10/100/1000 Base-T ports
 - Two SFP slots
 - One WAN Ethernet for broadband Internet/IP access
- Two option module slots for expansion
- VIM Option Modules:
 - Four port analog trunk
 - Four port analog station
 - Analog two trunk/two station
 - T1/PRI
- Feature-rich IP Router
- Stateful Inspection Firewall
- VPN (50 tunnels)
- Layer 2 and Layer 3 Quality of Service (QoS)
- Music-on-hold input, paging output
- Door relay
- Graphical User Interface (GUI)
- Industry-leading North American five-year warranty

The NetVanta® 7100 is a complete IP telephony and data networking solution for businesses with 50 employees or less.

This all-in-one platform includes an IP PBX, voice mail, full-featured IP router, firewall, VPN, 24-port powered (802.3af) Fast Ethernet switch with Gigabit uplinks, and two expansion slots for connection to the PSTN or Internet.

The NetVanta 7100 IP PBX functionality includes SIP-based telephony features, voice mail (12 hours, eight ports), multilevel auto attendant, caller ID name/number, classes of service, trunk groups, music-on-hold, overhead paging, and a number of call options including call coverage lists, forwarding of calls to a cell phone, and email notification of voice mail.

The system includes VPN private tunnel encryption (DES, 3DES, AES) enabling telecommuter or branch office locations to securely access the same telephony and data features available at the headquarters location.

The NetVanta 7100 is powered by the ADTRAN® Operating System (AOS), and integrates the functionality, ease of use, and value of ADTRAN's highly successful NetVanta switches and routers. Data networking features include a stateful inspection firewall, IP router including DHCP client/server, multiple routing protocols and Layer 3 Quality of Service (QoS). The integral switch provides 24

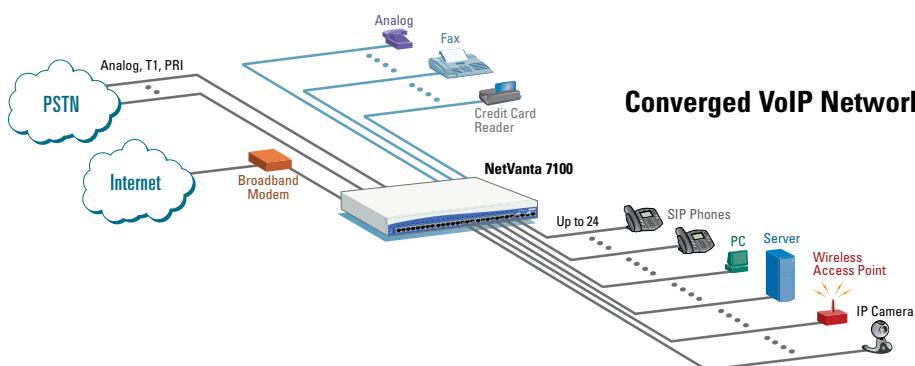
powered (802.3af) 10/100 Ethernet ports, with 802.1Q VLANs and 802.1p Class of Service, making the system fully VoIP-ready and ideal for QoS applications.

For additional trunk and station flexibility and expansion, the NetVanta 7100 offers several Voice Interface Modules (VIMs). These include a four-port analog (FXO) trunk module, TI/PRI trunk module which supports voice or integrated voice and data. A four-port analog (FXS) station module is also available as well as a combination module which provides two analog stations and two analog trunks. The NetVanta 7100 chassis provides two open slots for the optional VIMs.

A dual IP and TDM backplane architecture supports both IP and analog devices to eliminate common performance problems associated with converting TDM analog devices to IP. Fax and modem devices connect directly to the NetVanta 7100 and achieve full-rate performance across the PSTN.

A Graphical User Interface (GUI) Web server provides easy and secure system setup and management from a Web browser, and each user has a personal phone Web page to manage their phone.

Designed to be a complete, all-in-one IP voice and data solution, the NetVanta 7100 simplifies the installation and support of a converged Voice over IP (VoIP) network by combining multiple product functions into one flexible system.



Converged VoIP Network



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NetVanta[®] 7100

Converged IP Office in a Box

Product Specifications

IP PBX System Features

- Analog Trunks (Loop Start/Ground Start; FSK Capture of Caller ID name/number; two integral, 10 max.)
- Analog Stations (Loop Start DTMF; 1500 feet over 26 AWG; two integral, 10 maximum)
- Multilevel, eight-port auto-attendant
- Busy Lamp Field/Direct Station Select (BLF/DSS)
- Call Detail Records
- Caller ID Name/Number Override (internal and external)
- Classes of Service
- Codec support includes G.711, G.729, G.722 (wideband)
- Configurable Dial Plan
- Door Relay
- Door Phone
- Email notification of voice mail message
- Global Call Coverage Lists
- IP Stations (50 maximum; SIP hardphone or softphone)
- Least-Cost Routing
- Operator Groups
- Outgoing Number Substitution
- PRI or integrated voice, data PRI
- Personal phone manager Web page
- Ring Groups (ring all, circular hunt group, UCD, executive)
- System Speed Dial
- T1 or integrated voice, data T1
- Trunk Groups
- Variable length extension numbers (three-digit, four-digit)
- Voice mail (12 hours, eight ports)
- Virtual Extensions (20)
- Voice mail accounts (80)
- 16 DSP resources
- 64ms echo cancellation for VoIP calls

IP Station Features

- Call Drop
- Call Forward (All, Busy, No Answer)
- Call Forward to Outside Line (cell phone)
- Call Hold
- Call Logs
- Call Park Retrieve
- Call Waiting
- Hands free intercom
- Do Not Disturb
- Headset jack
- Missed Call Indicator
- Music on Hold
- Overhead Paging
- Redial
- Speakerphone
- Caller ID Name/Number
- Call Park
- Call Transfer
- Conferencing (3-person)
- Emergency call override
- Message Waiting Light
- Multiple Call Appearances
- Mute
- Personal Call Routing (Call Coverages)
- Volume Control

Router Features

- RIP V1, RIP V2, OSPF, BGP, and Static routes
- PPP, PPPoE, Frame Relay WAN protocols
- DHCP Client/Server
- Class-based Weighted Fair Queuing, Priority Queuing, Weighted Fair Queuing
- Diffserv aware/mark
- MLPPP/MLFR

Firewall Features

- Stateful Packet Inspection
- NAT (1:1), NATP (Many:1)
- Denial of Service (DoS) Protection
- Access Control Lists
- SIP aware (B2BUA)

VPN Features

- 50 tunnels
- IPSec
- DES/3DES/AES encryption

Ethernet Switch Features

- 10/100Base-T (24)
- 10/100/1000Base-T (2)
- Two SFP slots
- Auto-Rate
- Auto-Duplex
- Auto-MDI/MDI-X
- 802.1d Spanning Tree
- 802.1p Class of Service aware/mark
- 802.1Q VLANs
- 802.3af Power over Ethernet (15.4 watts for each of the 24 ports)

Management Features

- Command Line Interface (CLI)
- HTTP, HTTPS (Web browser)
- Telnet
- SSH

Environment

- **Operating Temperature:** 0 to 50 degrees C
- **Storage Temperature:** -20 to 70 degrees C
- **Relative Humidity:** Up to 95%, non-condensing

Physical

- **Chassis:** 1U, 19" rackmountable metal enclosure
- **Dimensions:** 1.7" H, 17.2" W, 12.8" D
- **Weight:** 11 pounds
- **AC Power:** 100-250 VAC, 50/60 Hz
- **Power:** 450 watts

Ordering Information

| Equipment | Part # |
|---|-----------|
| NetVanta 7100 | 1200796L1 |
| Network Interface Modules (NIMs) | |
| T1 | 1202862L1 |
| Dual T1 | 1200872L1 |
| ADSL | 1200869L1 |
| 56/64K DDS | 1200861L1 |
| Voice Interface Modules (VIMs) | |
| Analog 4-Port Station (FXS) | 1200690L1 |
| Analog 4-Port Trunk (FXO) | 1200691L1 |
| Analog 2-Port Trunk/2-Port Station | 1200692L1 |
| T1/PRI | 1200695L1 |