



NetVanta 7100

IP Communication Platform

Product Features

- Supports SIP trunking
- Supports SIP multisite networking
- Integrated switch, router, IP PBX
- IP PBX supports up to 50 SIP stations
- Supports ADTRAN IP 706/712 and certified Polycom® phones
- Supports PBX and key system modes
- Transfer voicemail-to-email
- Supports Source and ANI Based Routing (SABR)
- SIP/PSTN Gateway
- Voice mail (12 hours, eight ports)
- Multilevel auto attendant
- Shared Line Appearance (SLA)
- Busy Lamp Field/Direct Station Select (BLF/DSS)
- Dial by name directory
- DHCP server
- System scheduler
- Option Modules:
 - Four port analog trunk
 - Four port analog station
 - Analog two trunk/two station
 - T1/PRI
- Feature-rich IP router, firewall, and VPN
- SIP-aware firewall
- URL filtering
- Wi-Fi® access controller for NetVanta wireless access points (eight)
- Voice Quality Monitoring (VQM), Mean Opinion Score (MOS) reporting
- Music-on-hold input, paging output, door relay
- Graphical User Interface (GUI)
- Industry-leading North American five-year warranty

The NetVanta® 7100 is an integrated IP data networking and telephony solution designed to simplify Voice over IP (VoIP) and IP telephony for business locations of up to 50 employees. This one-box solution combines multiple data and voice functions into a single, affordable platform. The ADTRAN® NetVanta 7100 IP Communication Platform includes a router, 24 port Power over Ethernet (PoE) switch, firewall, Virtual Private Network (VPN), Wireless LAN controller, SIP Gateway, and business-class phone system with integrated voice mail and automated attendant.

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 and overhead paging. Additional call options include call coverage lists, forwarding of calls to a cell phone and email notification of voice mail. The NetVanta 7100 also provides enhanced communications productivity by enabling voicemail messages to be sent as .WAV files to email.

Shared Line Appearance (SLA) and Busy Lamp Field/Direct Station Select (DSS) are popular key system functions and are also supported in the NetVanta 7100. SLA enables one or more lines to appear on multiple phones within the system. For example, trunk lines such as Line 1, Line 2 and Line 3 could appear on each phone so users can “pick up Line 1,” or an incoming 1-800 line could appear on all phones as the sales line. BLF/DSS provides a visual indication of the status of phones configured in the system with a specific button to directly connect to stations.

The NetVanta 7100 supports SIP trunking to dynamically combine voice and data across a single SIP link to the service provider. The NetVanta 7100 also supports multi-site SIP networking for linking sites together to provide direct dial between sites and reduce inter-office communications costs.

The NetVanta 7100 is powered by the ADTRAN Operating System (AOS), and integrates the functionality of ADTRAN’s highly successful NetVanta switches and routers. Data networking features include a stateful inspection and SIP-aware firewall, IP router including DHCP client/server, multiple routing protocols and Layer 3 QoS. The integral switch provides 24 powered (802.3af) 10/100 Ethernet ports, with 802.1Q VLANs, 802.1p Class of Service, and Voice Quality Monitoring (VQM) making the system fully-ready and ideal for VoIP applications.

The NetVanta 7100 chassis provides two analog trunk and station interfaces and two expansion slots. For additional trunk and station connectivity, 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, and a four-port analog (FXS) station module. A combination module which provides two analog stations and two analog trunks is also available.

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. Each user also has access to a personal phone Web page to manage their phone.

The NetVanta 7100 simplifies the installation and support of a converged VoIP network by combining multiple product functions into a single, flexible system.



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IP Communication Platform

Product Specifications

IP PBX System Features

- Analog Trunks (Loop Start/Ground Start; FSK Capture of Caller ID name/number; two integral, 10 maximum)
- Analog Stations (Loop Start DTMF; 1500 feet over 26 AWG; two integral, 10 maximum)
- Auto-attendant (multilevel, eight-port)
- Shared Line Appearance (SLA)
- Busy Lamp Field/Direct Station Select (BLF/DSS)
- System Scheduler (seven configurable modes: i.e., night, lunch, weekend)
- Public hold
- 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)
- 24 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 Waiting
- Hands free intercom
- Do Not Disturb
- Headset jack
- Missed Call Indicator
- Music on Hold
- Overhead Paging
- Redial
- Speakerphone
- Volume Control
- Caller ID Name/Number
- Call Park
- Call Park Retrieve
- Call Transfer
- Conferencing (3-person)
- Emergency call override
- Message Waiting Light
- Multiple Call Appearances
- Mute
- Personal Call Routing (Call Coverages)

Router Features

- RIP V1, RIP V2 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)

Content Filtering

- Inherent URL filter
- Top website reports
- Integration with Websense®

VPN Features

- Five 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)
- Telnet
- HTTP, HTTPS (Web browser)
- SSH

Environment

- **Operating Temperature:** 0 to 50° C
- **Storage Temperature:** -20 to 70° 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 lbs.
- **AC Power:** 100–250 VAC, 50/60 Hz
- **Power:** 450 watts

Chassis Includes

- 24 10/100 Ethernet (802.3af PoE) ports
- 2 analog station (FXS) ports
- 2 analog trunk (FXO) ports
- 2 10/100/1000 Base-T ports
- 2 SFP slots
- 2 option module slots
- 1 WAN Ethernet for broadband Internet/IP access

Ordering Information

Equipment	Part #
NetVanta 7100	1200796E1
Network Interface Modules (NIMs)	
T1	1202862L1
Dual T1	1200872L1
ADSL	1202869E1
Voice Interface Modules (VIMs)	
Analog 4-Port Station (FXS)	1200690E1
Analog 4-Port Trunk (FXO)	1202691G1
Analog 2-Port Trunk/2-Port Station	1202692G1
T1/PRI	1200695L1
Fiber Expansion Modules	
SFP Module, 1000Base-SXSFP	1200480E1
SFP Module, 1000Base-LXSFP	1200481E1

ADTRAN, Inc.
Attn: Enterprise Networks
901 Explorer Boulevard
Huntsville, AL 35806

P.O. Box 140000
Huntsville, AL 35814-4000

256 963-8000 voice
256 963-8699 fax

General Information
800 9ADTRAN
info@adtran.com
www.adtran.com

Pre-Sales Technical Support
800 615-1176 toll-free
application.engineer@adtran.com
www.adtran.com/support

Where to Buy
877 280-8416 toll-free
channel.sales@adtran.com
www.adtran.com/where2buy

Post-Sales Technical Support
888 423-8726
support@adtran.com
www.adtran.com/support

ACES Installation & Maintenance Service
888 874-ACES
aces@adtran.com
www.adtran.com/support

International Inquiries
256 963 8000 voice
256 963-6300 fax
international@adtran.com
www.adtran.com/international

For the regional office nearest you, visit:
www.adtran.com/regional

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