NetVanta 7100

IP Communications Platform

Product Features

- IP PBX, voice mail, auto attendant, integrated PoE switch, router, firewall and VPN
- Supports SIP trunking
- Supports SIP multisite networking
- IP PBX supports up to 100 SIP stations
- Supports ADTRAN IP 706/712 and certified Polycom phones
- Supports PBX and key system modes
- Call queuing
- Transfer voicemail-to-email
- Supports Source and ANI Based Routing (SABR)
- SIP/PSTN Gateway
- Voice mail (3,000 messages, 50 hours, eight ports)
- Multilevel auto attendant
- Shared Line and Call Appearance
- Busy Lamp Field/Direct Station Select (BLF/DSS)
- Dial by name directory
- IP handset paging
- DHCP server
- System scheduler
- Native find-me/follow-me with simultaneous ring
- Native find-me/follow-me
- URL filtering
- Wi-Fi access controller for NetVanta wireless access points (eight)
- Voice Quality Monitoring (VQM), Mean Opinion Score (MOS) reporting
- Software music-on-hold
- Paging output, door relay
- Graphical User Interface (GUI)

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 100 employees. This one-box solution combines multiple data and voice functions into a single, affordable platform. The ADTRAN NetVanta 7100 IP Communications 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 multi-level automated attendant.

PBX and Key System

The NetVanta 7100 IP PBX functionality includes SIP-based telephony features, voice mail, multi-level auto attendant, caller ID name/number, classes of service, trunk groups, music-on-hold and overhead paging. Additional call options include call coverage list and forwarding of calls to an outside cell phone. The NetVanta 7100 also provides email/voice mail integration and enhanced communications productivity by enabling voice mail messages to be sent as .WAV files to email.

Shared Line Appearance (SLA), Shared Call Appearance (SCA) and Busy Lamp Field/Direct Station Select 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.

SIP Trunking and Networking

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 multisite SIP networking for linking sites together to provide direct dial between sites and reduce inter-office communications costs.

Hardware and Software Platform

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 VQM making the system fully ready and ideal for VoIP applications. Additional PoE switches can be uplinked to the NetVanta 7100 to increase the physical Ethernet port count and capacity to 100.

The NetVanta 7100 chassis includes 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.

Unified Communications

ADTRAN's Business Communications Systems provides a complete IP communications system with the NetVanta 7000 Series, harware-based IP PBX bundled with the software-based Unified Communications (UC) solution with full unified messaging for voice, fax and email. This solution easily integrates with existing Microsoft Outlook and Active Directory platforms for click-to-dial, inbound/outbound IVR, conference server, fax server for desktop faxing, text-to-speech, find-me/follow-me, as well as a host of other features to enable business communications.

Integrated Functionality

The NetVanta 7100 adds the flexibility and functionality SME's gain value from. Call Queuing allows for a call center-like experience without the high cost. The find-me/follow-me function enables a mobile workforce with no drop-off in customer service and interaction. 911 support, for email notification to administrator of 911 being dialed, is available for no additional charge and builds peace of mind.

NetVanta 7100

IP Communications 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)
- Shared Call Appearance
- Call queuing
- Paging through IP Phones
- Busy Lamp Field/Direct Station Select (BLF/DSS)
- System Scheduler (seven configurable modes: i.e., night, lunch, weekend)
- Public hold
- Find-Me/Follow-Me with simultaneous ring
- 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
- Software music-on-hold
- Door relay
- Door phone
- Email notification of voice mail message
- Global call coverage lists
- IP stations (100 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 (3,000 messages, eight ports)
- Virtual extensions (20)
- Voice mail accounts (130)
- 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), NAPT (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, rackmountable metal enclosure
- **Dimensions:** 4.318 cm H, 43.688 cm W, 32.512 cm D
- **Weight:** 5 kg.
- **AC Power:** 100–250 VAC, 50/60 Hz
- **Power:** 450 watts

Chassis Includes

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

Ordering Information

Equipment	Part #
NetVanta 7100	1200796E1
NVU BCS BNDL 100 LIC (UC Software Only)	1950101BSG1
NVU BCS BNDL w/7100 (UC Software and NetVanta 7100)	4200796G1#UC
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 (FX0)	1202691G1
Analog 2-Port Trunk/2-Port Station	1202692G1
Fiber Expansion Modules	
SFP Module, 1000Base-SXSFP	1200480E1
SFP Module, 1000Base-LXSFP	1200481E1

fax
sales.latin@adtran.com
sales.brazil@adtran.com
sales.ai@adtran.com

TL9000

TL19.1270

TL 9000
TELECOMMUNICATIONS
ISO 9001:2000
QUALITY
ISO 14001
ENVIRONMENT

ADTRAN is an ISO 9001, ISO 14001, and a TL 9000 certified supplier.

I61200785L1-8O   June 2010
Copyright © 2010 ADTRAN, Inc.
All rights reserved.