

VX900T



VX Series Mobile VoIP Gateway

- Full VoIP Interface with VoIP Switch Fabric
- Support for Inline Network Encryptor (IP or Serial, up to Type I)
- Locally Attached STU/STE/FNBDT/SCIP Support
- Voice, Data, Video (IP)
- Wired, Wireless or Satellite (INMARSAT, BGAN, VSAT)
- SIP/H.323 Support
- Integrated Signaling, Gateway and Interactive Voice Response (IVR)
- Bestflow Frame Packing for up to 6 secure calls/64kbps

Today's secure mobile requirements look to the extension of enterprise-class secure voice, data and video to mobile, and tactical teams. This increasingly includes the ability to leverage IP-based networking technologies that are rapidly beginning to dominate the markets.

The award-winning Open Architecture VX900T mobile VoIP gateway from Network Equipment Technologies (NET), simplifies the operation and reduces the setup time for enterprise-class mobile IP gateways, allowing teams to focus on their mission and not their technology resources.

The VX900T is the most powerful mobile voice over IP (VoIP) solution in its class, providing rapid deployment gateway services to local end users as well as acting as an IP network interface.

EXECUTIVE TRAVEL TEAM SUPPORT

The VX900T can be used to support wired or wireless secure voice services, including data and "mobile-PBX" capabilities, while leveraging its small size and low weight to make the entire "setup/teardown" process more manageable.

SECURE FORWARD-DEPLOYED SUPPORT

The VX900T supports secure, encrypted voice and data support via LAN, WiMax, Cellular, WiFi or satellite (INMARSAT M4, BGAN, VSAT).

MOBILE COMMAND SUPPORT

Extend full "VoIP-PBX" functionality to an entire mobile command center. With its IP-based architecture and bandwidth saving software, the VX900T helps to maximize transmission capabilities over remote or satellite connections.

EXTREME ENVIRONMENT SUPPORT

With its small size and low power draw, the VX900T can operate in AC or DC environments where power or rack space is at a premium.

VX SERIES SPECIFICATIONS

Platform Features

- Capacity
 - Up to 24/30 simultaneous compressed VoIP calls per T1/E1
- Interfaces
 - Network: Single, Dual, Quad T1, E1
 - Physical: Two Ethernet (10/100 Mbps RJ45 Interfaces)
 - 4 FXS (4 physical interfaces)
 - 1 BRI for WAN Connectivity
 - 1 or 4 Port Serial Interfaces

VoIP and Fax Signaling Protocols

- Conversion and translation between all supported Protocols
 - IP to IP
 - IP to TDM
 - TDM to IP
- T1 CAS (E&M, DTMF, MF)
- E1 CAS (R2 MF)
- ISDN -10 Variants, Network and User side ISDN, Q.SIG
- H.323v2, SIP (RFC3261) TCP/UDP, TLS, BSP
- T.38 Real Time Fax Relay
- Fax Detection
- STU Relay
- STE Support (via STU or FNBTD/SCIP)
- FNBTD/SCIP

Voice Features

- Automatic call type detection/pass through for voice/modem/fax
- Support for A-law and μ -law encoding
- Voice compression: G.723 (5.3 or 6.3 Kbps), G.729A, G.729AB, G.711, G.726 (16, 24, or 32 Kbps), G.727 (16, 24, or 32 Kbps)
- G.168 echo cancellation (128ms tail size, full duplex)

- Fax: group 3 and 4 at 2.4, 4.8, 7.2, 9.6, 12 and 14.4 Kbps
- T.38 real time fax relay
- Voice activity detection, silence suppression, comfort noise generation
- Call progress tone generation - dial tone, busy, ring-back, and congestion

Routing Features

- Dynamic call routing/link quality management (LQM)
- Multiple routing tables per channel, per port
- Load sharing
- QoS routing
- Least Cost routing
- Hair-pinning - route backup over PSTN or secondary IP network to ensure call completion

Network Security

- RADIUS via SHOUTgate for AAA, user/password database
- Network Address Translation (NAT)
- DNS, CLID, call type pre-authentication

Configuration/Network Management

- SNMPv2 - traps, alarms, and statistics
- VXbuilder™ (GUI-based provisioning tool)
- VXwatch™ (real-time alarm monitoring tool)
- netMS™ (network management platform managing all NET platforms)
- VXgate™
- Command Line Interface

Interactive Voice Response (IVR)

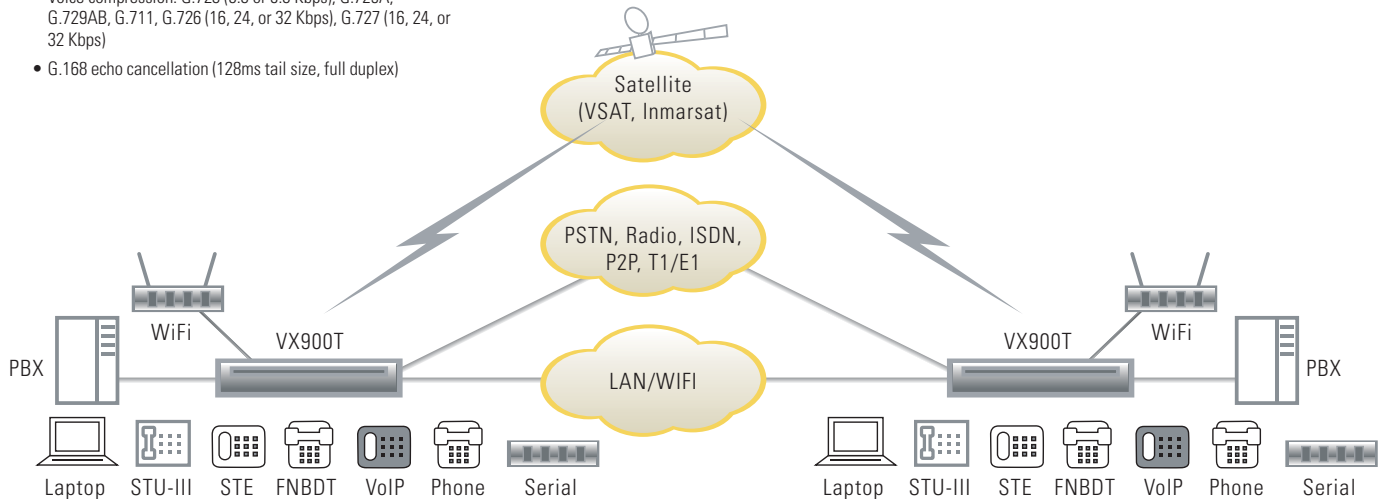
- Full platform integration
- No bandwidth usage – wav. files are played locally
- Fully customizable
- IVR support on all TDM and IP interfaces

Service Creation via SHOUTscript

- Fully onboard programming and scripting language
- Real-time access to database functions via VXgate
- Play back and recording of audio to and from a call
- Collection of DTMF digits
- Complete access to call information
- Creation of unique customer applications

Chassis Data

- Dimensions (HxWxD) 1.75" x 11" x 15.5"
- Weight : Less than 8lbs
- Stand-alone or rack mountable in a 1U, 19in. (483mm) rack mount (EIA and Telco rack support)
- Normal Operating Conditions 15 degrees F to 130 degrees F (-10 degree C to 55 degree C)
- Humidity: 20% to 80% non-condensing
- Power: 10-30VDC



Corporate Headquarters
 6900 Paseo Padre Parkway
 Fremont, CA 94555 U.S.A.
 T 510.713.7300
 F 510.574.4000
 E info@net.com
www.net.com

N.E.T. Federal
 21660 Ridgetop Circle
 Suite 100, Dulles, VA 20166 U.S.A.
 T 703.948.1800
 F 703.948.1850
 E net_federal@net.com

Some features may be under development, and all are subject to change without notice. This document creates no obligations and is not a representation regarding product functionality. You are solely responsible for verifying the suitability of NET's products for your requirements.

© 2006 Network Equipment Technologies, Inc. (NET). The following are trademarks of NET: VX Universal Voice Exchange, VX SERIES, VXbuilder, VXwatch, VXscript, BESTflow, NET, and the NET logo. VX900T-ENT-DS-1106