



KEY FEATURES

- ⊗ Power over Ethernet (802.3af) Support
- ⊗ Setup Wizard for different types of network environment and IP phone accounts
- ⊗ Auto Configuration Support via TFTP and HTTP (Plug-n-Play operation)
- ⊗ Smart Firmware Management Support via TFTP and HTTP
- ⊗ Primary and Backup SIP server support for primary proxy server failover and network redundancy (single server mode only)
- ⊗ Programmable QoS Marking (both 802.1q VLAN and ToS/DiffServ)
- ⊗ Compatibility in multi-vendor open architecture VoIP networks
- ⊗ Retrieving time via NTP Servers and SIP message
- ⊗ NAT/ Firewall Traversal Support with Border Session Controller or Stun Server
- ⊗ Support for 4 VoIP Accounts/SIP Proxies

Features

NetComm's V90 is the ideal device to take advantage of the benefits of VoIP Telephony services. Adding to the V90's elegant design are a host of features including Full Duplex Speaker Phone with echo cancellation, speed dials, phone book, call transfer, mute and a unique volume control for both the handset speaker/microphone.

Standards Based

The V90 is fully compliant with IETF SIP 2.0 specification which ensures that it will run smoothly and error free.

POE Support

Power-over-Ethernet (PoE) or "Active Ethernet" lets you run a single CAT5 Ethernet cable to carry both power and data to devices on the LAN. This eliminates the need to run separate 240 Volt power to devices on a wired LAN.

It also allows greater flexibility in locating IP Phones and significantly decreases installation costs. With Power over Ethernet, you can power network devices up to 328 feet (100 meters) away, using standard CAT5 Ethernet cable.

As standard, the V90 is supplied as both a POE and DC powered terminal. With full 802.3af compliance, the V90 can be powered over Ethernet by any standards based POE switch or power injector.

TECHNICAL SPECIFICATIONS

Standards Supported

- SIP V2.0 Standard (RFC 3261)
- SDP (RFC 2327)
- Digest authentication and MD5 encryption (SIP)
- ITU-T G.711 Alaw/Ulaw, G.729A, G.729AB, G.723.1
- RTP (Real Time Transmission Protocol) RFC1889
- RTCP (Real Time Transport Control Protocol) RFC 3550
- Proprietary Firewall-Pass-Through Technology
- Simple Traversal of UDP over NAT (STUN)
- Web-based Management
- PPP over Ethernet (PPPoE)
- PPP Authentication Protocol (PAP)
- Internet Control Message Protocol (ICMP)
- TFTP Client
- Hyper Text Transfer Protocol (HTTP)
- Dynamic Host Configuration Protocol (DHCP)
- Domain Name System (DNS)
- Out-band DTMF Relay: RFC 2833 and SIP Info
- SIP proxy address in DHCP (RFC 3361)

Software Features

- Built-in HTTP, Phone Menu for accessing internal parameters
- PPPoE Client
- NAT Broadband Router functions
- DHCP Client
- DHCP Server
- Firmware On-line upgrade
- Phone Book
- Memory Dial
- Speed Dial
- Caller ID
- Multiple Language Support

Hardware Interface

- Ethernet PC & Network Port (2 x RJ-45, 10/100BaseT)
- DC Jack
- Headset Port

Centralised configuration and management

The V90 terminal can download a configuration file from an HTTP server that will prompt it to upgrade its firmware file. A DHCP server is used to assign an IP address to the V90 phone and inform the V90 of the HTTP address of the configuration file.

Programmable Function Keys

The V90 features 5 user programmable keys that can be used for speed dialling or any number of common everyday tasks.

Quality of Service

The built in QoS of the V90 guarantees that call quality is maintained and monitored to give you crisp clear calls with no drop out or stuttering.

Key Features

- SIP 2.0 standardization deployed throughout
- Advanced audio processing – jitter buffer with packet delay and packet loss concealment
- Voice packetization & flexible voice compression
- Programmable voice packet payload size
- Centralised control of codec negotiation
- In-band and Out-band DTMF transport
- G.168 Echo Cancellation
- Two Ethernet ports supporting router and bridge mode
- Call Redial, Flash, Mute
- Caller ID / Call Waiting
- Call Hold/Forward/Conference/Transfer (attended/unattended call transfer)
- Phone Book Memory Dialing
- Speed Memory Dialing
- Hands Free Dialing
- Hotline Dialing
- Call history for incoming, outgoing and missed calls
- Programmable Generic Function Key Definitions (automatic adding prefixes/customized LCD menu)
- Soft Login/Logout key for SIP registration
- 128x64 dot matrix LCD with back light
- Full Duplex Speakerphone
- Auto Provisioning Support
- Firmware upgrading, loading configuration, phone status reports via Centralized Management tool
- Local Music on Hold

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