

ViNE500 Series

“One box solution delivering
POTS & ISDN, VoIP, Data & ADSL”

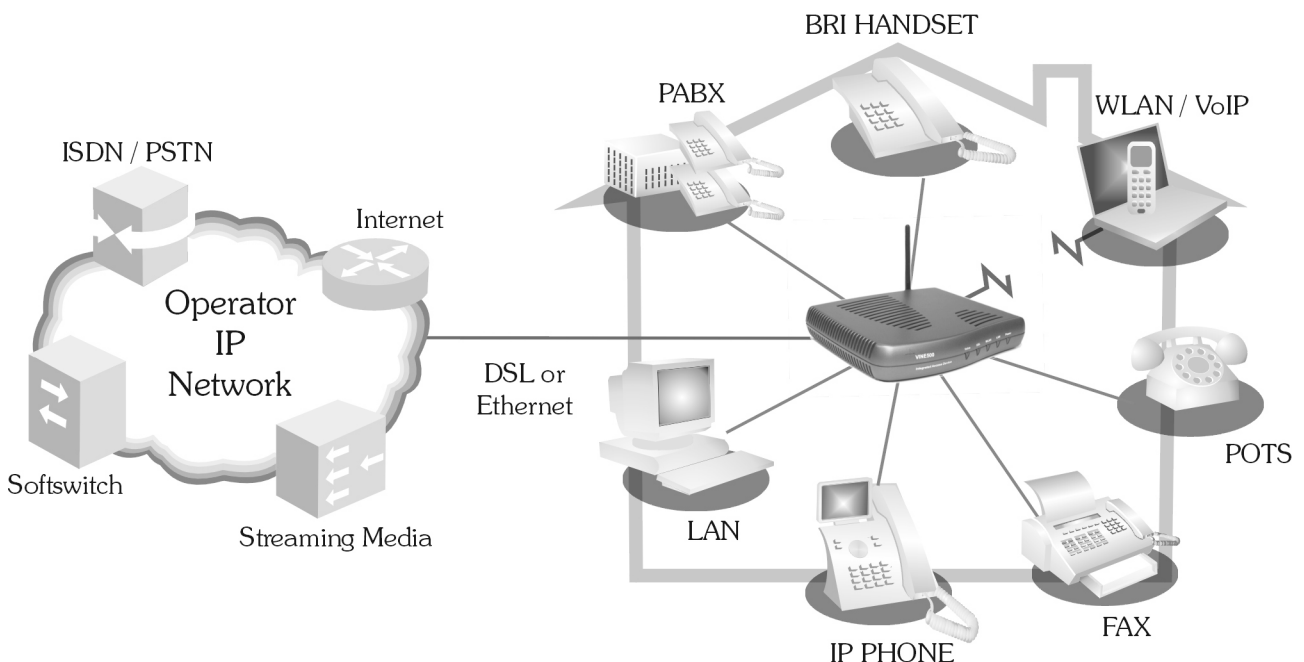


ViNE511b: 1x ISDN BRI
ViNE512a: 2x POTS (FXS)
ViNE513m: 2x POTS & 1x BRI

- ADSL/2/2+, 3G or Ethernet WAN
- VoIP SIP or MGCP
- SIP Trunking
- 4 port LAN - 10/100baseT/TX
- Wireless LAN - 802.11b/g

Key Features:

- ADSL/2/2+ modem/router with integrated WIFI, POTS and BRI VoIP gateway.
- DSL, 3G Wireless or Ethernet WAN
- Provides ‘equivalent’ voice service over broadband / VoIP
- Provides POTS, BRI ISDN or combinations
- Comprehensive ATM and IP QOS
- Target market segment:
 - SME
 - Enterprise
- Remote management & provisioning
 - TR-069
 - Telnet / SSH / HTTP / HTTPS / FTP
 - SNMP
 - Broadsoft Device Manager
- Stateful inspection firewall
- Extensive interop experience
- RTCP-XR VoIP Call Quality Metrics
- Integrated SIP proxy enabling Centrex and Redundancy support



Specifications:

ViNE511b, ViNE512a, ViNE513m

Network Interfaces

- ADSL/2/2+ RJ11
- up to 24 Mbps downstream
 - up to 3.072 Mbps upstream
 - G.992.1 (G.dmt)
 - G.992.2 (G.lite)
 - G.992.3 (G.dmt.bis) ADSL2
 - G.992.5 ADSL2+
- Ethernet 4xRJ45
- Configurable WAN or LAN
 - 10/100baseT/TX
 - Auto MDI/MDIX
- WLAN
- 802.11 b/g Single Radio
 - Single SSID
 - WEP/WPA/WPA2
 - Auto channel selection
 - Auto rate selection

Telephony Interfaces

- Up to 2 simultaneous calls
- POTS FXS RJ11
- DTMF and loop disconnect dialling
 - REN of 4
 - CLASS features
- Configurable:
- Impedance: Complex or Resistive
 - Line reversal states
 - Ring frequency & cadence
 - Ring voltage = 50V nominal
 - On-hook batt. Voltage = 48V
 - DC loop current = 25mA
 - Lifeline Support (optional)
- ISDN2/BRI S0 RJ45
- CTR3 compliant
 - NT mode + TE mode (optional)
 - Point to point & point to multipoint
 - 100 ohm termination
 - Power source 1 support (NT)
 - Supplementary service support

USB Master : 3G

- USB Master providing 3G WAN
- DSL backup over 3G
- Routing and Physical fail over

Voice Protocols

- MGCP: NCS, RFC2705, 3435
SIP: RFC 3261, 2453
- Single port registration
 - Trunking
 - Multiple device registration
 - Single device registration
 - No registration
 - POTS trunking
 - Local SIP proxy (optional)
 - Local dial plan

VoIP Codex

- G.711 a-law, u-law, 64 kbps
- G.726/G.721 ADPCM, 32 kbps
- G.729ab CS-ACELP, 8 kbps
- G.168 echo cancelling
- Silence detection
- Comfort noise generation
- DTMF detection and relay
- Fax and modem detection
- T.38 fax relay
- Variable length dynamic jitter buffer
- Packet loss concealment (PLC)
- RFC 4040 - Clear mode (ISDN only)

Data

- 8 ATM PVC on DSL WAN
- Bridged and routed encapsulation - RFC 1483
- LLC/SNAP, VCMux, HDLC
- MER (Mac Encapsulated Routing)
- PPPoH, PPPoA, PPPoE, PAP, CHAP
- IPoA - RFC 2225
- VLAN termination

Routing

- Up to 16 LAN subnets with DHCP server association
- RIP v1/v2
- NAT, NAPT (PAT)
- BGP
- IP Multicast forwarding
- IGMP v1/v2 & proxy
- DHCP server, client, relay
- DNS server, client, relay
- Dynamic DNS client
- Transparent bridging
- STUN
- Policy Based Routing (PBR)

Quality of Service

- ATM: CBR, VBR-rt, VBR-nrt
- UBR, UBR+
- ATM VC traffic shaping
- IP: TOS/DSCP bit prioritisation
- VLAN tagging
- Diffserv
- Packet classifier and metering
- Transmit scheduler
- Algorithmic dropping
- RTCP (RFC3550)
- RTCP-XR (RFC3611)

Configuration & Management

- HTTP, HTTPS, Telnet, SSH, SNMP
- Local or remote access
- Firmware upgrade HTTP(S), TFTP, FTP
- ICMP Ping, Syslog, Traceroute
- TR-069, TR-098, TR-104, TR-111
- Broadsoft device management

Security

- IP filtering
- NAT/NAPT
- Password access
- Configurable access controls
- Stateful inspection firewall
- DOS protection
- IPSec termination and initiation

VPN Services

- LAN-to-LAN and teleworker-to-LAN
- Manual keys
- Authentication: Null, MD5 and SHA-1
- Internet Key Exchange (IKE) authentication: pre-shared key, Digital Signature Algorithm (DSA) and Rivest, Shamir and Adleman (RSA)
- Hardware-accelerated Triple Data Encryption Standard (3DES)/Data Encryption Standard (DES) and Advanced Encryption Standard (AES)

Mechanical

- Unit Size: 200 x 55 x 172 mm
- Boxed Size: 290 x 250 x 100mm
- Boxed Weight: 1.4 kg

LED Indicators

FRONT:

- Power, DSL, LAN, Voice, WLAN

REAR:

- LINK/DATA for each LAN port

Environmental

- Operating temp. 0 to 40°C
- Storage temp. -10 to 60°C
- 5 - 95% Relative Humidity

Regulatory

- CE marked
- RoHS compliant
- Safety: EN60950
- RFI: Emissions: EN55022
- RFI: Immunity: EN55024
- ERM: EN300329 V1.7.1

Power

- AC/DC Adapter
- 110/230Vac - 12Vdc 10W max