



Easy-to-install,  
Compact Device  
for Enhanced  
Voice and Data  
Communications

# Networking and Voice Gateway

The NG-VG is part of Alvarion's rich portfolio of WiMAX™ end user devices. This integrated wireless gateway features an optimal footprint with a maximal set of functionalities including Wi-Fi, voice and data connections (fax and printer) and Voice over IP (VoIP).

## Ideal for Residential and SOHO Use

The Alvarion Networking and Voice Gateway (NG-VG) is a compact, standalone device designed to address the broadband access needs of residential and SOHO users. The NG-VG is packed full of powerful functions including wireless Internet via a broadband WAN connection, VoIP and IEEE 802.11 b/g Wi-Fi access. With a single socket powering the network gateway, the voice gateway and the outdoor CPE via Power over Ethernet (PoE), the NG-VG is especially handy for small enterprises and home offices.

## Simplified Zero Touch Installation

The NG-VG comes with a browser-based setup and configuration utility for quick and easy installation, enabling wireless integrated home and SOHO gateway services on-the-fly.

Whether a home user or a SOHO, the NG-VG enables you to experience quality VoIP service and data connection quickly and conveniently - just connect the plugs and get started.



### NG-VG Feature Highlights

- Single socket solution
- 1 WAN port transmitting PoE to an outdoor CPE
- Four data ports and two voice ports
- Wi-Fi antenna with IEEE 802.11b/g WLAN support
- 3 VLAN IDs per device (1 data, 1 voice, 1 management)

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## Hardware Specifications

### VoIP

#### VoIP Voice Features

Adaptive Jitter Buffer, Voice Activity Detection  
Comfort noise generation, caller ID detection/generation  
Call progress tone  
Codecs: G.711 A/u , G.729a  
G.168 echo cancellation  
T.38 fax , G3 fax/modem tone detection and auto-fallback to G.711

### I/O Ports

#### Physical Interfaces

10/100 BaseT RJ-45 ports for WAN interface with proprietary PoE  
4 10/100 BaseT RJ-45 ports for LAN interface  
2 RJ-11 ports for FXS  
1 Wi-Fi antenna  
1 power jack (3-wire, 55VDC, 12VDC, GND)  
1 reset switch

#### LED Indicators

LAN status  
WAN status  
FXS status  
Wi-Fi link status  
Power on/off

### WiFi Standard

Standard Compliance  
802.11b 14dBm  
802.11g 15dBm

### WiFi Radio

Antenna System (WiFi)  
External 3 dBi omni antenna

## Software Specifications

### Networking

IPv4  
UDP for Ipv4  
TCP v4  
Address Resolution Protocol (ARP)  
VLAN tagging per service  
UPnP (Universal Plug & Play)  
DHCPv4 runtime client  
DHCPv4 server  
DHCP Applications  
DHCPv4 runtime client  
DHCPv4 server  
PPP Support  
PPPoE (RFC 2516)  
NAT/NAPT Features

Application Level Gateways (ALGs)  
- TFTP  
- FTP  
- SIP

#### Network Applications

- IP Routing  
- Port Forwarding  
- DMZ Host  
- SNTP client  
Firewall Features  
- Denial of service attack  
- TCP/IP/port/interface filtering rules  
- MAC layer filtering  
- Day-time parental control

#### VoIP Protocol, Stack and Call Features

- SIP support  
- SIP V2 (RFC3261), SDP (RFC2327) standards  
- RTP/RTCP (RFC1889) support  
- Call hold, call waiting, call forwarding, caller ID  
- Call transfer, call conference support

#### Management

Local configuration  
- Web  
- Local web software upgrade  
SNMP  
- SNMP v1/v2c agent  
- SNMP MIBs: MIB-II

### Wi-Fi Features

#### Security

WEP encryption: 64 Bit, 128 Bit ,EAP-WPA2  
SSID  
Support SSID

### Environmental

Operating Temperature  
0°C to 45°C  
Operating Humidity  
5% ~ 95% non-condensing  
Storage Temperature  
-40°C to 65°C  
Storage Humidity  
10% - 90%

### Power Consumption

Power consumption (Max)  
12W

### Certification

EMC FCC Part 15 class B  
Radio FCC Class B  
Safety EN60950  
Certification  
CE  
Recycling  
WEEE-compliant  
Green Initiative  
RoHS-compliant

### Physical

Dimension (HxWxD)  
231x36x136 mm

## About Alvarion

Alvarion (NASDAQ:ALVR) is a global 4G communications leader with the industry's most extensive customer base, including hundreds of commercial 4G deployments. Alvarion's industry leading network solutions for broadband wireless technologies WiMAX, TD-LTE and WiFi, enable broadband applications for service providers and enterprises covering a variety of industries such as mobile broadband, residential and business broadband, utilities, municipalities and public safety agencies. Through an open network strategy, superior IP and OFDMA know-how, and ability to deploy large scale end-to-end turnkey networks, Alvarion is delivering the true 4G broadband experience today ([www.alvarion.com](http://www.alvarion.com))