

WellGate 3512

Wi-Fi VoIP Gateway



Front View



Rear View

Broadband Router with WiFi and VoIP to provide Triple Play Service

2 lines FXS + 1 PSTN failover back VoIP gateway

Wi-Fi 802.11 b/g AP mode

Wi-Fi 802.11 b/g client mode

WDS Repeater mode

Universal repeater mode

WellGate 3512 is a Wi-Fi VoIP Gateway, which combined 2-port FXS, 1-port PSTN failover backup, 1 WAN / 4 LAN router IP Gateway, and 802.11 b/g WLAN together. It supports SIPv2 (RFC3261) protocol and with rich telephony features. The PSTN interface supports power failure to switch 2-FXS lines to PSTN call automatically and dial to PSTN line manually. Wireless LAN can be configured to either Access Point or Client mode, with automatically site scan and access control by MAC address. It supports WDS and Universal Repeater to connect different wireless network together.

Benefits

Suitable for Triple Play Services (Voice, internet and Video entertainment) as Home Gateway
Built-in Wi-Fi AP, Wi-Fi Client, IP Gateway and VoIP, dedicated for Enterprise, SOHO, Home user.
Support both WDS and Universal Repeater, connect to different wireless network easily.
Connect to a variety of ISP's wireless network easily.
Support diverse networking connection of ADSL/Cable modem, 3G/WiMax Modem and xDSL Leased line.
Multiple VPN protocol pass-through, to integrate with existing VPN network.
Flexible Dial Plan for VoIP, PSTN, and Wireless call.
Security protected by Firewall and Denial of Service.
Voice packet (2 lines FXS) has higher priority than other ports.

Configurations

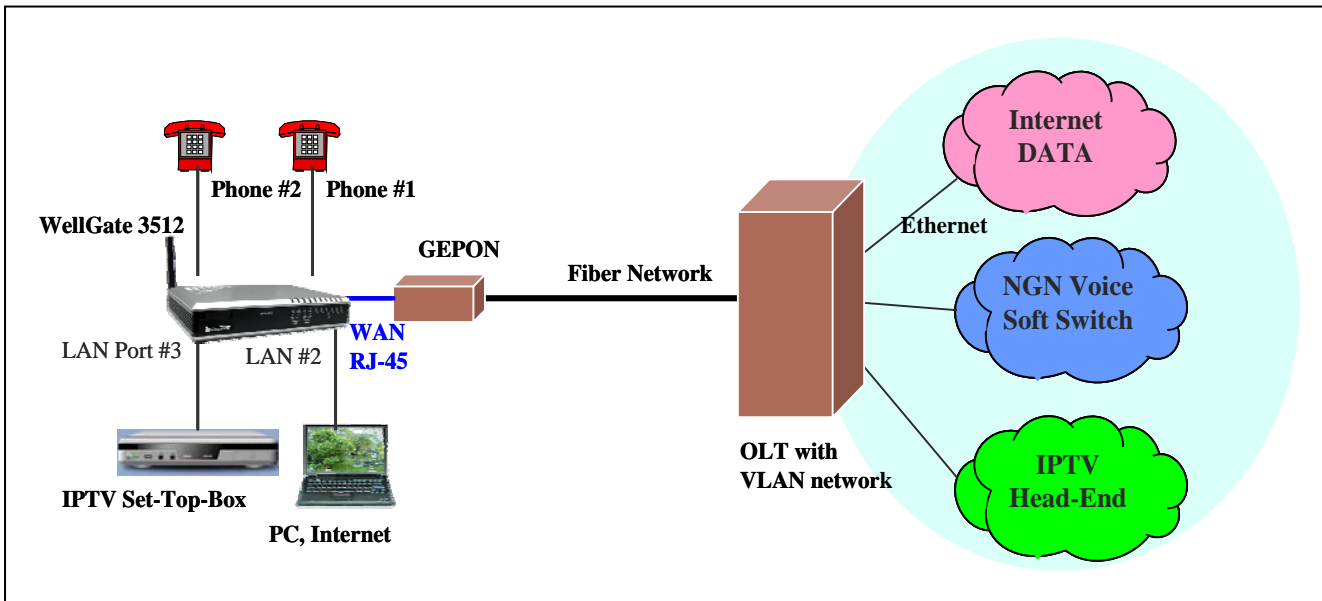
- Configure & Update method: Web Browser (HTTP)
- Access password setting and change
- IVR announcement of IP address
- System Status indication
- System Statistic
- Save / Reload Setting parameter
- System Log Saving locally and remotely
- Date & Time setting

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Application

Triple Play with VPN network application as Home Gateway.



Specification

Hardware Interface

Ethernet Port (RJ-45, 10/100 base-)
- 1-WAN port connect to ADSL/Cable modem or xDSL leased line.
- 4-LAN port connect to PC or other Network devices.
Telephone Line (RJ-11)
- 2-FXS port connect to analog phone set (POTS)
- PSTN port, connect to local PSTN network (power failure backup line)
RF Antenna Connector
Power connector: DC12V, 1.5A
Reset Key (Back to factory default setting)
Status indicated LED: WAN, LAN, FXS, PSTN, WLAN and power status

IP Network Connection

Broadband Router (IP Gateway)

IPv4 (RFC 791)
MAC Address (IEEE 802.3)
Static IP
DHCP Client (RFC 2131)
DHCP Server (RFC 2131)
PPPoE Client (RFC 2516)
NTP Server
DNS Client
DNS Relay
Dynamic DNS

NAT/NAPT (RFC 1631)
TCP/UDP (RFC 793/768)
RTP/RTCP (RFC 1889/1890)
IPv4 ICMP (RFC 792)
ARP (RFC 826)
TFTP Client
HTTP Server
Virtual DMZ
Firewall

IP Filtering
Port Filtering
MAC Filtering
URL Filtering
Port Forwarding

DoS: Denial of Service

Bridge Mode:

VPN Pass-Through: IPSec, PPTP, L2TP
NAT Traversal
UPnP IGD
STUN Client
SNTP Client (RFC 2030)
HTTP Server
Quality of Service
802.1Q VLAN Tag
DiffServ (RFC 2475)

Wireless LAN

Standard : Comply IEEE 802.11 b/g
Frequency: 2.4GHz (B) / 2.4GHz (G) / 2.4GHz (B+G)
Mode

Wi-Fi AP mode
Wi-Fi client mode
WDS repeater mode
Wi-Fi AP+WDS repeater mode
Universal Repeater Mode

SSID / Broadcast SSID

Channel: Ch 1 ~ 11, 13 for Europe (ETSI), 14 for Japan

Authentication Type: Open System / Shared Key

Data Rate: 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54M

Wireless ISP: Bridged WAN and LAN together, Wi-Fi Client connect to ISP's AP

802.1x Encryption and Authentication
Encryption: WEP (64/128bits), WPA/WPA2-TKIP/AES2
Mixed WPA and WPA
WPA Authentication: PSK: Pre-Shared Key (Personal) / Radius (Enterprise)

Wireless Access Control by MAC address (Allow/Deny)

802.11f, IAPP (Inter Access Point Protocol)

Support Network type: Infrastructure and Ad-Hoc mode

Support Site survey scan and Manual connect Up-to 8 WDS AP List

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IP Telephony

SIPv2 (RFC 3261)

Outbound proxy sets to increase performance, productivity and security.

Voice Codec

G.711 (a-Law/u-Law): 64 bits (PCM)

G.723.1: 6.3k/5.3k bits

G.726: G.726: 16/24/32/40K bits (ADPCM)

G.729A: 8k bits (CS-SCELP)

G.729B: adds VAD and CNG to G.729G

VAD –Voice Activity Detection with Silence Suppression

CNG – Comfortable Noise Generation

Voice Gain Adjustable

Automatic Gain Control

Line Echo Cancelation

Adaptive Jitter Buffer

Packet Loss compensation - increasing voice quality

DTMF: In-band, Out-of-band (RFC 2833), and SIP Info

Caller ID

- Caller ID Generation DTMF, FSK

(Bellcore, ETSI, BT, NTT)

- Call Waiting Caller ID

- Short Ring / Dual Tone before Caller ID

FAX Transmission:

Tone Detection

G.711 Pass-Through

T.38 Fax relay protocol

Modem Transmission

Tone Detection

G.711 Pass-Through

Tone Generation (up to 13 countries

localized tone selectable)

Ring Tone

Ring Back tone

Dial Tone

Programming Tone

Customized Ring Cadence

Call Features

Call Hold

Call Transfer (Blind)

Call Forward (Unconditional, No response or Busy)

Call Conference (3-ways)

DND (Do Not Disturb)

Dial number Plan

Proxy Routing Call

Direct IP Call

Routed to remote PSTN Phone

Speed Dial

Hot Line

Prefix code, insert/drop

Security

802.1x Wireless Encryption and Authentication

Build-in Firewall / Denial of Service

MD5 for SIP authentication (RFC 2069 / 2617)

Password protected Admin access authority

Country of origin:

Made in Taiwan

Environmental

Dimension (W*H*D): 175 x 32 x 126 mm

(without packing)

Weight : 0.6 kgm (with single packing)

Operating Temp. & Humidity

Temp.: 0°C~45°C (32°F~113°F)

Humidity: 10%~90% relative humidity, non-condensing

AC Power Input:

Input : AC100V~240V, 50-60Hz

Output : DC 12V, 1.5A

Regulatory: FCC (Part 15, Class B) & CE Processing