



PRODUCT DATA

WellGate 2644

8-port VoIP with 4-FXS plus 4-FXO Gateway

- Migrate from existing DPBX to VoIP call.**
- Integrate With DPBX without changing existing dial plan and cable layout.**
- Fail over switch PSTN line to FXS line.**
- Route Calls among IP, PSTN and FXS Phone automatically via configurable routing table.**
- Enhance your service,**
- Advance your Business.**

Welltech Computer Co., Ltd. was founded in 1988 in Taipei, Taiwan with the aim of linking people and the technologies, and has been an integral part of the community for over two decades. Our company is committed to promoting better Communications and Networking solutions to our customers through our strong knowledge and expertise in Voice over IP.

As the leading company in VoIP in Taiwan and with years of experience in H.323 and SIP protocol, Welltech has successfully developed FXO and FXS gateways, IP-Phone, E1/T1 Trunk gateway, SIP Proxy Server, Value added service server, softphone and become a VoIP expert.

The voice quality and total solution providing ability are the reason why Welltech VoIP products are popular in the market. From CPE side small gateways to CO side Solution, Welltech provided total VoIP solution to SOHO, multi-national corporations (MNCs), ITSP and carrier market. The new product, router integrated with voice over IP functions that support SIP protocol, is compliance with future communication trade.



PRODUCT DATA

Introduction

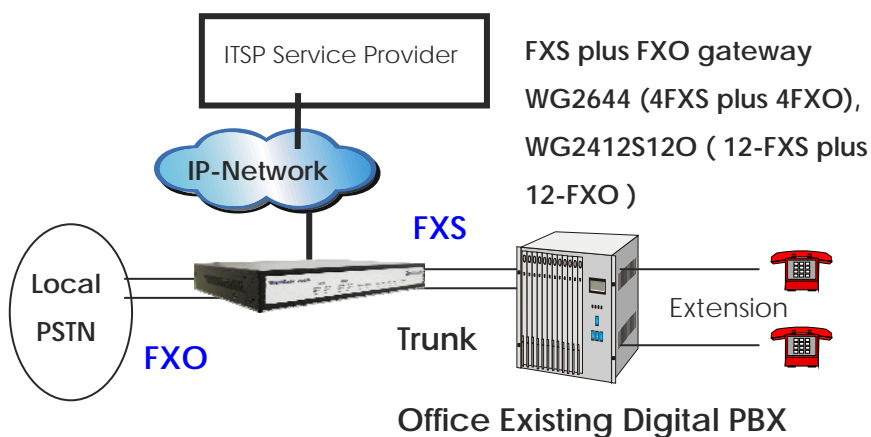
WellGate 2644 , a VoIP gateway combined 4-ports FXS and 4-ports FXO, connects with analog phones (POTS) and PSTN line directly. It includes 1-WAN/4-LAN 10/100 base-T NAT router for diverse network environment. Field-proven quality of Voice communication and Fax transmission over IP broadband access network make WellGate 2644 to be an excellent solution for various VoIP applications.

Benefits

- **Higher Capability VoIP FXS Gateway**
Build-in 4-ports FXS and 4-ports FXO for large-scale deployment and management.
- **Enhanced VoIP service**
Design 1-WAN and 4-LAN for diverse networking environment. Provide Call Detail Record to extend the service into enterprise client, Call-Shop, Apartment and etc.
- **Advanced Enterprise Business**
Bundle with SIP-PBX 6200 series IP-PBX, to advance your business and voice call over internet.
- **Suitable for Enterprise use, rich-features are designed to interwork with IP-PBX and legend PBX for small and middle enterprises.**
- **Carrier-grade features are supported and tested to be fully interoperable with leading Soft-Switches.**
- **Interoperability tested with marketing leading IP-PBX**
Compatible with marketing leading IP-PBX such as Alcatel, Lucent, Siemens etc.

Application

When 2644 is failed or lost of power, PSTN and PABX will be connected directly (bypass mode) to backup PSTN incoming call.



PRODUCT DATA

Physical Interface

Ethernet port (RJ-45, 10/100 base-T)

- 1-WAN port, for connect to Internet via router, ADSL modem (ATU-R), or switch hub directly.
- 4-LAN port, for PC or other network devices connection.

Telephony port (RJ-11)

- 4-FXS ports, to connect with analog phone (POTS) or PABX's trunk line.
- 4-FXO ports, to connect with PSTN line or PABX Extension

Reset button (Factory Default)

AC power Jack

Status indicated LED Indicates Ethernet, FXS, FXO and SIP system status

Specification

IP Network connection

IPv4 (RFC 791)

MAC Address (IEEE 802.3)

PPPoE Client (RFC 2516)

DNS Client

DHCP Client (RFC 2131) for WAN port

DHCP Server (RFC 2131) for LAN port

NAT (RFC 1631)

TCP/UDP (RFC 793/768)

ICMP (RFC 792)

RTP/RTCP (RFC 1889/1890)

SNTP (RFC 2030)

TFTP Client

Telnet Server

HTTP Server

QoS: DiffServ (RFC 2475) / ToS (RFC 791/1349)

IP Telephony (VoIP)

SIPV2 (RFC 3261)

- Session Timer (RFC 4028)
- Two Outbound proxy setting for increasing Performance, Productivity, and security.
- SIP proxy redundancy- Setting Primary and Secondary proxy by IP or URI.

PRODUCT DATA

Specification

Voice Codecs

- G.711 (A-Law/u-Law)
- G.723.1: 6.3k bits
- G.729A
- G.729

VAD – Voice Activity Detection with Silence Suppression

CNG – Comfortable Noise Generation

Silence Suppression

Echo Cancellation (G.165/G.168)

Signaling Protocol: Loop Start (both FXO/FXS)

Jitter Buffer – Adaptive & Configurable

Packet Loss Compensation - increasing voice quality

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

Caller ID Generation/Detection – FSK/DTMF

FAX transmission:

- G.711 pass-through
- T.38 Fax relay

Tone Generation/Detection:

- Ringing Tone
- Ring Back Tone
- Dial Tone
- Programmable Tone

Call Features

- Call Hold
- Call Transfer (Blind & consultant)
- Call Forward (Unconditional / No Answer / Busy)

MWI – Message Waiting Indication

Configurable Routing table to route call among IP, FXO and FXS.

IP line hunting (Hot line)

Adjustable volume level

Security

HTTP 1.1 basic/digest authentication for WEB access

MD5 for SIP authentication (RFC 2069/2617)

Password protected Admin access authority



Model : WellGate 2644

PRODUCT DATA

Setting and Management

Configure & Update method

- Web Browser (HTTP)
- Telnet
- FTP/TFTP

Voice announcement of IP address

Environmental

Dimension

35 × 242 × 160 mm (Desktop)

Weight

0.935 kg (unit without packing)

1.5 Kg (single packing)

Operating Temp. & Humidity

Temp.: 0°C~45°C (32°F~113°F)

Humidity: 10%~85% relative humidity, non-condensing

Storage Temp. & Humidity

Temp.: 0°C~55°C (32°F ~131°F)

Humidity: 10%~95% relative humidity, non-condensing

AC Power Adaptor

INPUT: AC100V~240V, 50/60Hz

OUTPUT : 12 Vdc, 3A current.

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

Disclaimer

This document contains product specifications, application examples, and techniques for promotion purpose. Welltech reserves the rights to change product features and functionalities without prior notice at any time. These changes may involve changes to the described solutions over time.

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	WellGate 2608	WellGate 2680	WellGate 2644
WAN	1	1	1
LAN	4	4	4
FXO	0	8	4
FXS	8	0	4