



PRODUCT DATA

WellGate 248S8P

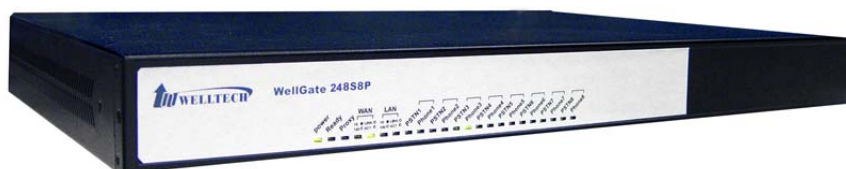
16-port Combined FXS+PSTN Gateway

**Higher Capability VoIP Combine FXS and PSTN Gateway
for Large-Scale deployment and management**

Connect with Analog Phone (POTS)

Connect to TDM PABX Extension

Direct Connect with PSTN Line



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 a decade. 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, USB phone and softphone and become a VoIP expert.

The voice quality and total solution providing ability are the reason why Welltech VoIP products are very 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.

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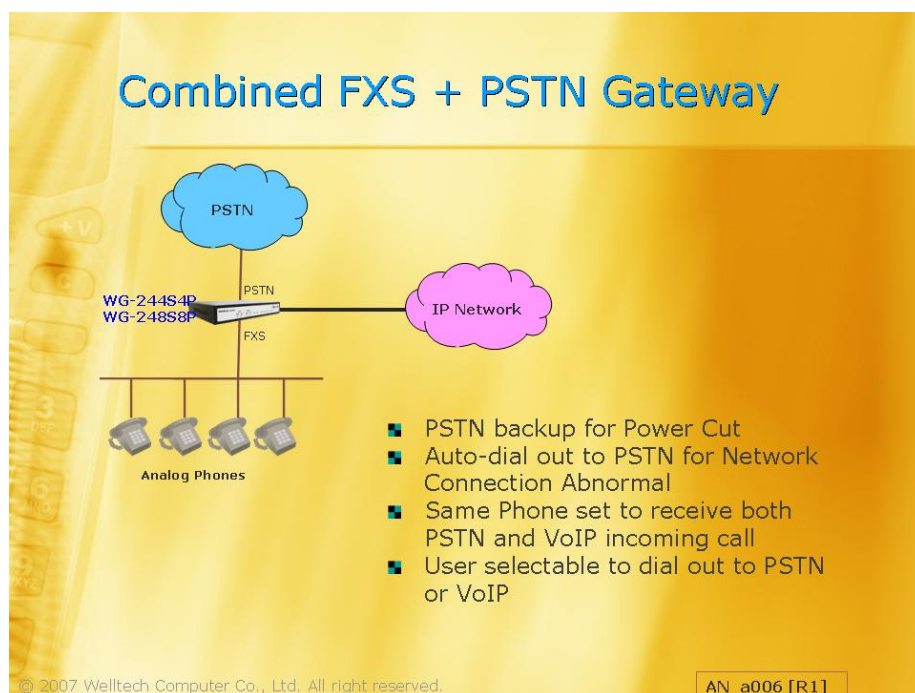
Introduction

The WellGate 248S8P is a VoIP gateway combined 8-ports FXS and 8-ports PSTN, to connect with analog phones (POTS) and direct connect to PSTN. Includes 1-WAN/1-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 to make WellGate 248S8P being an excellent solution for various VoIP applications.

Benefits

- **Higher Capability VoIP mixed FXS and PSTN Gateway**
Build-in 4/8 ports FXS and 4/8 ports PSTN for large-scale deployment and management.
- **Enhanced VoIP service**
Designed 1-WAN and 1-LAN for diverse networking environment. Provide Call Detail Record, to extend the service into enterprise client, Call-Shop, Apartment, etc.
- **Advanced Enterprise Business**
Bundle with SIP-PBX 6200 series IP-PBX, to advance your business and free-talk over internet.
- **Ideally suited for Enterprise use, rich-features are designed to interwork with IP-PBXs 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**
Be tested with marketing leading IP-PBX, such as Alcatel, Lucent, Siemens etc.

Application



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Physical Interface

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

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

Telephony port (RJ-11):

- 8-FXS ports, to connect with analog phone (POTS)
- 8-PSTN ports, to connect with PSTN line

Reset button (Factory Default)

AC power Jack

Status indicated LED

Indicates Power, Ethernet (WAN/LAN), PSTN, and SIP system status

Specification

IP Network connection

IPv4 (RFC 791)

MAC Address (IEEE 802.3)

Fixed IP

PPPoE Client (RFC 2516)

- PPP Auto-Authentication [CHAP/PAP(RFC1994/RFC1334)]
- ISP User Name/Password setting & store
- Auto connection

DNS Client

DHCP Client (RFC 2131)

DHCP Server (RFC 2131/2132)

- Supply IP Address, Subnet Mask, Default Gateway, DNS Server Address
- Supply Private IP Address setting -

NAT/PAT (RFC 1631/3235)

- Support Microsoft Netmeeting/Microsoft MSN Messenger /Yahoo Messenger

TCP/UDP (RFC 793/768)

ICMP (RFC 792)

RTP/RTCP (RFC 1889/1890)

SNTP (RFC 2030)

TFTP Client

Telnet Server

HTTP Server

QoS:

- ToS (RFC 791/1349)
- DiffServ (RFC 2475)
- IP Precedence
- Priority Control
- Rate Limit
- Traffic Shaping

Connection Mode Selectable:

- NAT Mode
- Bridge Mode

IP Telephony (VoIP)

SIPv2 (RFC 3261):

- Session Timer (RFC 4028)
- Outbound proxy setting for increasing Performance, Productivity, and security.
- SIP proxy redundancy- Setting Primary and Secondary proxy by IP or URI.
- 2 Multi-Accounts to register different Proxy Server

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Specification

Voice Codecs:

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

VAD - Voice Activity Detection with Silence Suppression

CNG - Comfortable Noise Generation

AGC - Automatic Gain Control

Silence Detection/Suppression

Echo Cancellation (G.165/G.168)

Signaling Protocol: Loop Start & Current Drop

Jitter Buffer – Adaptive & Configurable

Packet Loss Compensation - increasing voice quality

DTMF Detection/Generation:

- In-band
- Out-of-band (RFC 2833)
- SIP-Info

Caller ID Send/Receive: FSK

FAX transmission:

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

Call Tone Generation:

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

Call Features:

- Call Hold
- Music on Hold
- Call Transfer (Blind & consultant)
- Call Forward (Unconditional / No Answer / Busy)
- Call Waiting
- Speed Dial
- 3-way Calling
- DND

MWI – Message Waiting Indication

Dial Plan:

- 20 Lists
- Prefix Routing
- Digit check Routing

PSTN Relay:

- PSTN backup for Power Cut
- Auto-dial out to PSTN for Network Connection Abnormal
- Same Phone set to receive both PSTN and VoIP incoming call
- User selectable to dial out to PSTN or VoIP

Polarity Reverse

Hotline

Phone Book

Representation Number:

- Representation Number Register
- Ring All
- Sequential Ring



Model No. WG-244S4P/248S8P

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Setting and Management

- Configure and Upgrade Method:
 - Web Browser (HTTP)
 - Telnet
 - FTP/TFTP
 - Remote Auto-Download setting parameter
- Web Access password Protect
- Software Recovery, auto-recovery to original firmware when upgrade failed or power cut
- Device Status display
- Call Statistic:
 - Packet Loss
 - Packet Sent
 - Packet Received
- Call Detail Record (CDR)
- Voice announcement of IP address
- Voice Announcement Alarm for Network Connection Abnormal or IP Call Unavailable

Environmental

Dimension (W×H×D): 440 × 44 × 262mm

Weight: 3.25kg (unit)

Operating Temp. & Humidity

- Temp.: 0°C~45°C (32°F~113°F)
- Humidity: 10%~90% 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±10%, 50/60Hz±10%
- OUTPUT: DC 12V, 5.0A

Order Information

	WG-248S8P	WG-2412S12P
WAN	1	1
LAN	1	1
PSTN	8	12
FXS	8	12

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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