



## PRODUCT DATA

# WellGate 2680 8-port VoIP FXO

## Gateway

Higher Capability VoIP FXO Gateway for  
Large-Scale deployment and management  
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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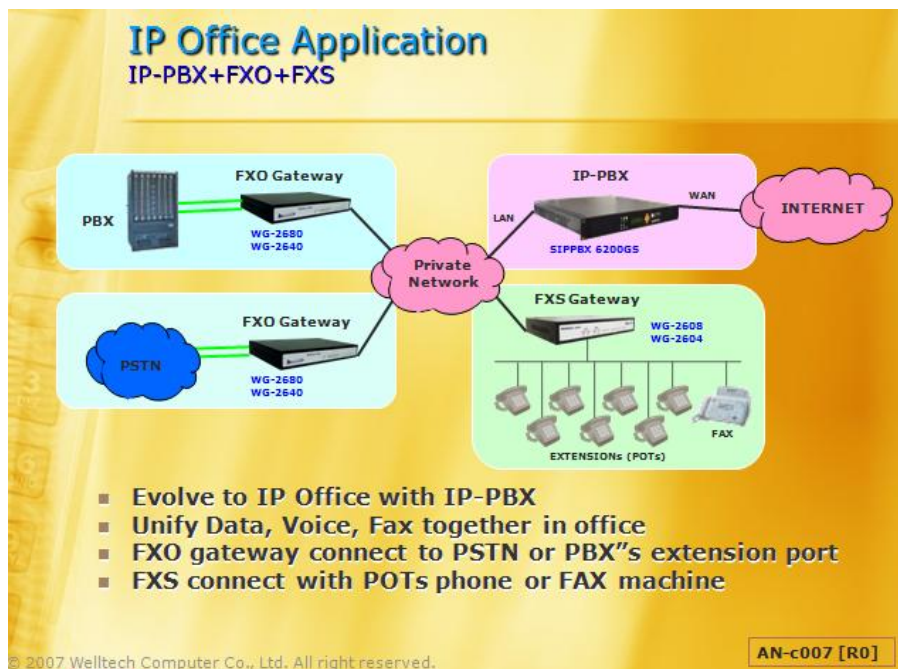
### Introduction

The WellGate 2680 is an 8-ports FXO VoIP gateway to connect with PSTN line, PABX extension port, and 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 to make WellGate 2680 be an excellent solution for various VoIP applications.

### Benefits

- **Higher Capability VoIP FXO Gateway**  
Build-in 8 ports FXO for large-scale deployment and management.
- **Enhanced VoIP service**  
Designed 1 WAN, and 4 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.
  - 4-LAN port, for PC or other network devices connecting.
- Telephony port (RJ-11)
  - 8-FXO ports, to connect with PSTN line or PABX Extension port
- Reset button (Factory Default)
- AC power Jack
- Status indicated LED
- Indicates Ethernet, 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)
- DHCP Server (RFC 2131)
- 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)
  - Outbound proxy setting for increasing Performance, Productivity, and security.
  - SIP proxy redundancy- Setting Primary and Secondary proxy by IP or URI.

#### 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

Silence Suppression

Echo Cancellation (G.165/G.168)

Signaling Protocol: Loop Start

Jitter Buffer – Adaptive & Configurable

Packet Loss Compensation - increasing voice quality

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

Caller ID Detection –FSK/DTMF/ETSI (Before ringing)

ETSI (Between ringing)

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### Specification

#### FAX transmission:

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

#### Tone Detection:

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

#### Call Features

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

#### Security

HTTP 1.1 basic/digest authentication for WEB access  
MD5 for SIP authentication (RFC 2069/2617)  
Password protected Admin access authority

### 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: 0.935kg (unit)

#### 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: DC 12V, 3.0A

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



Model No. WG-2680

## PRODUCT DATA

### Order Information

|     | WG-2608 | WG-2604 | WG-2644 | WG-2680 | WG-2640 |
|-----|---------|---------|---------|---------|---------|
| WAN | 1       | 1       | 1       | 1       | 1       |
| LAN | 4       | 4       | 4       | 4       | 4       |
| FXO | 0       | 0       | 4       | 8       | 4       |
| FXS | 8       | 4       | 4       | 0       | 0       |

#### Disclaimer

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