WELLTECH

WellGate 3701A/ 3702A FXS+FXO

Converging PSTN and VoIP services into One Network

WellGate3701A/3702A

WellGate 3701A/3702A is a one-port/two-port FXS + FXO gateway. It supports an innovative intelligent call routing function that transparently routes calls to destination either through PSTN or Internet.

WellGate 3701A/3702A provides Voice over IP and FAX over IP services for ITSP / ISP Internet Telephony Services Provider and Office / SOHO IP-PBX application.

WellGate 3701A/3702A supported H.323 v2/v3/v4 and SIP protocol. It also provides various voice codec i.e. G.711A/μ-Law, G.723.1, G.729 and G.729A with Dynamic Jitter Buffer and Bad frame interpolation.

Application

- ISP/ITSP (Internet Telephony Service Provider)

- Multi-nation enterprise communication

- SOHO Telephony

- IP-PBX with office telephony services

- Telephone /PBX call via IP network

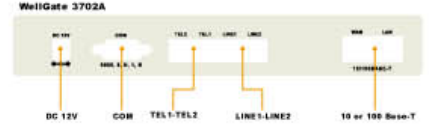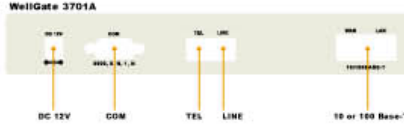- FAX over IP (FoIP) device

Benefits

- Easy access to IP from phone set or PBX

- Cost Saving - Telephone call from VPN or public Internet

- Follows the existing telephone call dial plan

- Easy interface with ADSL/Cable Modem and Leased line equipment

Rear Panel Drawing

WellGate 3701A

| DC 12V | COM | TEL | LINE | 10 or 100 Base-T |

WellGate 3702A

| DC 12V | COM | TEL1-TEL2 | LINE1-LINE2 | 10 or 100 Base-T |

Features

- ITU-T H.323 v2/v3/v4 compliance
- Support SIP protocol
- Automatically Dial Path Selection (IP or PSTN)
- PSTN Line switch to telephone set when power is failure.
- PPPoE
- Behind NAT router or IP sharing device
- DNS server inquiry
- Automatically Gatekeeper Discovery
- Provide Peer-to-Peer Mode (Non Gatekeeper needed) selection
- E.164 Dial Plan
- DTMF detection/generation
- TFTP/FTP software upgrade
- Remote configuration/reset
- LED indication for system status
- MS-NetMeeting v3.0 compatible
- Support Fix IP and DHCP
- Parameters of VoIP packet
- MGCP (**)

(**) : Contact Welltech for availability

Audio Feature

- Codec -- G.711 A/μ-Law, G.723.1, G.729A, G.729
- G.168/165-compliant adaptive echo cancellation
- Dynamic Jitter Buffer
- Completed voice band signaling support
- Provide In-band or Out-band DTMF generation/detection
- Provide call progress tone

FAX Support

- Provide T.38/FAX function

FXS features

- Line polarity reversal generation
- 2-wire loop start
- Caller ID (DTMF/FSK) generation
- Programmable On-Hook voltage, Ring voltage/Cadence/Frequency, Loop Current

FXO features

- 2-wire loop start
- Support auto-attendant (Tone or voice greeting)
- PSTN polarity reversal detection
- Provide 2nd dial tone to PSTN
- Disconnect tone detection

Technical Specification

Interface

- Two 10/100Base-T Ethernet RJ-45 port
- One DB-9 RS-232 COM port
- One Analog PSTN (FXO) RJ-11 port and One Telephone (FXS) RJ-11 port for WellGate 3701A only.
- Two Analog PSTN (FXO) RJ-11 ports and Two Telephone (FXS) RJ-11 ports for WellGate 3702A only.
- DC 12V input (Provide external AC100 -240Vac input adaptor)

Management Feature

- TELNET/Console port and Web Browser configuration

Certification

- UL, CE, FCC

LED indicators for system status

- POWER: Power ON indication
- TEL1 to TEL2: LED indicator for Telephone port status (FXS)
- LINE1 to LINE2: LED indicator for PSTN port 1-2 status (FXO)
- STATUS: WellGate 3701A/3702A register to Gatekeeper status
- READY: WellGate 3701A/3702A operation status
- WAN: - LINK / ACT: Link and Active status
  - 10/100: 10 or 100Base-T status
- LAN: - LINK / ACT: Link and Active status
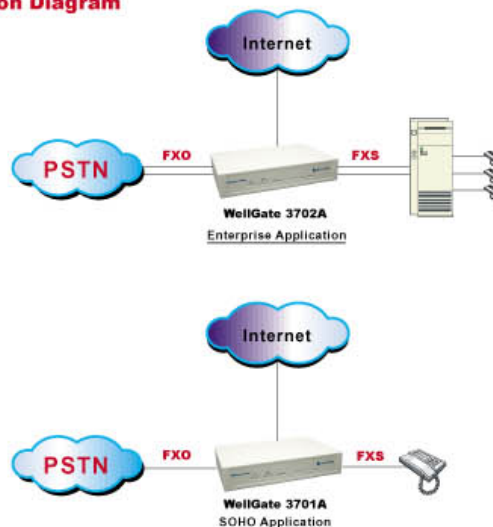 - 10/100: 10 or 100Base-T status

Power

- Input AC 100V~240V Output DC12V.

Environmenta

- Operation temp: 0° C to 40° C
- Humidity: 10% to 90% (Non-condensing)

Application Diagram

WellGate 3702A
Enterprise Application

WellGate 3701A
SOHO Application