WELLTECH

WellGate 3502 / 3502A / 3504A FXS

An easy access between Telephone Extension and IP Network

WellGate 3502/3502A/3504A FXS is a two-port/four-port telephone extension to IP network gateway. It provides telephone services and T.38 fax over IP network with easily operation and configuration. Support DHCP features for Plug & Play operation. Provides VoIP and FoIP services to Home, SOHO and IP telephony call.

WellGate 3502/3502A/3504A provides Voice over IP and FAX over IP services for ITSP / ISP Internet Telephony Services Provider and Office / SOHO IP-PBX application. By integrating with centralized Gatekeeper or call manager, it provides full functions on voice/FAX services and office telephony services. It also supports phone-to-phone call and PC-to-Phone call if the soft phone or NetMeeting is installed in the PC.

WellGate 3502/3502A/3504A provides various voice codec i.e. G.711A/u-Law, G.723.1, G.729 and G.729A with Dynamic Jitter Buffer and Bad frame interpolation. It provides toll voice quality and FAX services under managed network i.e. VPN or Public Internet Network.

WellGate 3502 implements H.323 v3 protocol with H.450 services. It can easily connect to the H.323 compatible Gatekeeper. The traditional PBX functionality are provided with H.450 features together with Gatekeeper or IP / PBX Call Manager.

TELNET and COM port provide local and remote configuration, Management and software download. By using this feature, ITSP/ISP provides centralized control, management and software upgrade to remote site gateway. Several examples are listed below: IP / Gatekeeper addressing setting, dial plan, voice codec, Gatekeeper and Peer to Peer mode selection, QoS setting and call progress tone setting.

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 to ADSL/Cable Modem or Leased line equipment

For WellGate 3502
Dimension : 165mm(W) x 25mm(H) x 100mm(D)
Weight(unit): 0.7 kg

Rear Panel Drawing 3502

For WellGate 3504A
Dimension : 223mm(W) x 35mm(H) x 152mm(D)
Weight : 1.5kg

Rear Panel Drawing 3504A

Technical Specification

Interface

- One 10Mbps Ethernet RJ-45 port for WellGate 3502 only
- Two 10/100Base-T Ethernet RJ-45 port for WellGate 3502A/3504A
- One DB-9 RS-232 COM port
- Two RJ-11 Telephone port (FXS) for WellGate 3502/3502A
- Four RJ-11 Telephone port (FXS) for WellGate 3504A only
- DC 12V input (Provide external AC100 -240Vac input adaptor)

Features

- ITU-T H.323 v3 / SIP compliance (**)
- Alternate Gatekeeper selection
- Provide Peer-to-Peer Mode (Non Gatekeeper needed) selection
- Line polarity reversal generation
- Provide call progress tone
- PPPoE (option)
- Behind NAT router or IP sharing device
- 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
- Support QOS by setting TOS (Type Of Service) parameters of VoIP packet

Audio Feature

- Codec -- G.711 A/u-Law, G.723.1, G.729A,G.729
- VAD (Voice Activity Detection) , CNG (Comfort Noise Generation)
- G.168/165-compliant adaptive echo cancellation
- Dynamic Jitter Buffer
- Bad Frame Interpolation
- Completed voice band signaling support
- Provide Inband or Outband DTMF generation/detection
- Provide H.450 services (Hold, Transfer, Forward)
- Gain/Attenuation Settings
- Provide Progress Tone: Dial tone, busy tone, call-holding tone, 2nd Dial tone and ring-back tone

FAX Support

- Automatically FAX detection
- Group 3 Fax relay at 2.4 - 14.4 kbps
- Support T.38 protocol

FXS interface

- 2-wire loop start
- Programmable AC impedance, Feeding voltage, Ring Voltage, Ring Cadence, Loop current and call progress tone
- ON-Hook Voltage : 48Vdc
- Ring Voltage : 45 Vrms
- Loop Current : Constant 23mA

Management Features:

Two easy ways for system configuration
- Console port
- TELNET

Certification:

For WellGate 3502-
- UL,CE,FCC,VCCI,BSMI
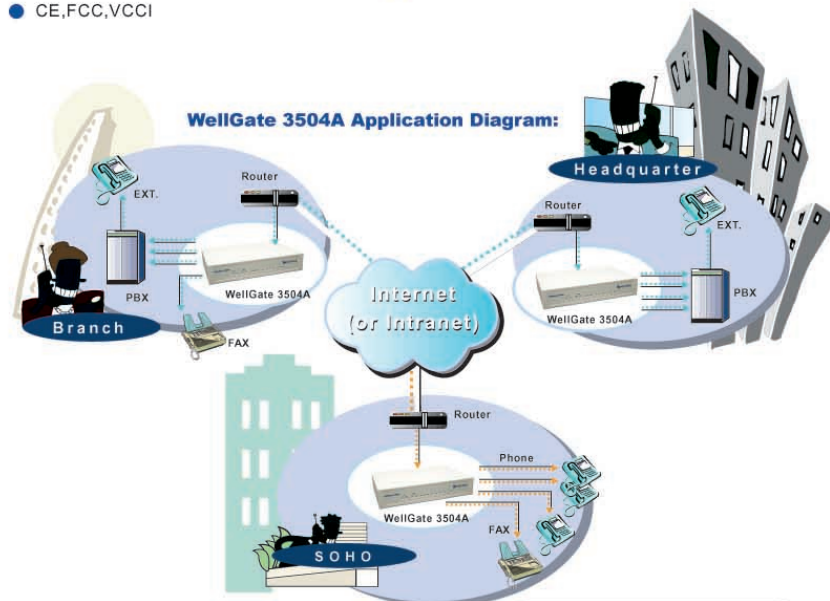For WellGate 3502A/3504A-
- CE,FCC,VCCI

LED indicator for system status

For WellGate 3502 :

- TEL1/TEL2:LED indicator for Telephone port status
- POWER:Power ON indication
- LINK/ACT:10Base-T status
- STATUS:WellGate 3502 register to Gatekeeper status
- READY:WellGate 3502 operation status

For WellGate 3502A/3504A:

- TEL1/TEL2:LED indicator for Telephone port status for WellGate3502A only
- TEL1/TEL4:LED indicator for Telephone port status for WellGate3504A only
- POWER:Power ON indication
- LINK/ACT:Link and Active status
- 10/100:10 or 100Base-T status
- STATUS:WellGate 3502A/3504A register to Gatekeeper status
- READY:WellGate 3502A/3504A operation status

WellGate 3504A Application Diagram:

Headquarter
EXT.
Router
Branch
PBX
WellGate 3504A
FAX
Internet (or Intranet)
Router
EXT.
WellGate 3504A
PBX
Router
Phone
WellGate 3504A
FAX
SOHO

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(**) : Contact Welltech for availability of SIP protocol