

# WellGate 3502A/3504A

WellGate 3502A/3504A FXS is a two-port/four-port telephone extension to IP network gateway and support H.323 v2/v3/v4 or SIP RFC 3261 protocol. It provides telephone services and T.38 fax over IP network with easy operation and configuration for ITSP / ISP (Internet Telephony Services Provider) and Office / SOHO IP-PBX application.

## 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
- Easy to integrate with all kinds of IP-PBXs
- Provision Management via Welltech PRO-9500 Server



## Specification

	H.323 Version	SIP version
Protocol	<ul style="list-style-type: none"> <li>● ITU-T H.323 v2/v3/v4 compliance</li> </ul>	<ul style="list-style-type: none"> <li>● SIP RFC3261</li> </ul>
Compatible Server	<ul style="list-style-type: none"> <li>● GnuGK(Behind NAT)</li> </ul>	<ul style="list-style-type: none"> <li>● OpenSER Asterisk</li> </ul>
Telephony Features	<ul style="list-style-type: none"> <li>● Call Hold, Call Transfer, Call Forward (H.450)</li> </ul>	<ul style="list-style-type: none"> <li>● Call Hold</li> <li>● Call Transfer</li> <li>● Call Forward</li> </ul>
FAX Support	<ul style="list-style-type: none"> <li>● Automatically FAX detection</li> <li>● T.38 G3 FAX</li> <li>● Group 3 Fax relay at 2.4 - 14.4 kbps</li> </ul>	<ul style="list-style-type: none"> <li>● Automatically FAX detection</li> <li>● T.38 G3 FAX</li> <li>● Group 3 Fax relay at 2.4 - 14.4 kbps</li> </ul>
Audio Codec Support	<ul style="list-style-type: none"> <li>● G.711A/μ-law, G.723.1, G.729A, G.729 G.729B, G.729AB</li> </ul>	<ul style="list-style-type: none"> <li>● G.711A/μ-law, G.723.1, G.729A, G.729 G.729B, G.729AB</li> </ul>
Network Interface	<ul style="list-style-type: none"> <li>● 10/100Base-T Ethernet RJ-45 port x 2 for WellGate3502A/3504A</li> </ul>	<ul style="list-style-type: none"> <li>● 10/100Base-T Ethernet RJ-45 port x 2 for WellGate3502A/3504A</li> </ul>
FXS Interface	<ul style="list-style-type: none"> <li>● RJ-11 Telephone port (FXS) x 2 for WellGate 3502A</li> <li>● RJ-11 Telephone port (FXS) x 4 for WellGate 3504A only</li> <li>● 2-wire loop start</li> <li>● Programmable AC impedance, Feeding voltage, Ring Voltage, Ring Cadence, Loop current and call progress tone</li> <li>● ON-Hook Voltage: 48Vdc</li> <li>● Ring Voltage: 50 V RMS</li> <li>● Loop Current: Constant 23mA</li> </ul>	<ul style="list-style-type: none"> <li>● RJ-11 Telephone port (FXS) x 2 for WellGate 3502A</li> <li>● RJ-11 Telephone port (FXS) x 4 for WellGate 3504A only</li> <li>● 2-wire loop start</li> <li>● Programmable AC impedance, Feeding voltage, Ring Voltage, Ring Cadence, Loop current and call progress tone</li> <li>● ON-Hook Voltage: 48Vdc</li> <li>● Ring Voltage: 50 V RMS</li> <li>● Loop Current: Constant 23mA</li> <li>● Support Payphone Charge signal 12K/16K/Polarity Reversal</li> </ul>
Voice Quality	<ul style="list-style-type: none"> <li>● VAD (Voice Activity Detection)</li> <li>● CNG (Comfort Noise Generation)</li> <li>● AEC (Acoustic Echo Cancellation)-G.168</li> </ul>	<ul style="list-style-type: none"> <li>● VAD (Voice Activity Detection)</li> <li>● CNG (Comfort Noise Generation)</li> <li>● AEC (Acoustic Echo Cancellation)-G.168</li> </ul>



	<ul style="list-style-type: none"> <li>● Dynamic Jitter Buffer</li> </ul>	<ul style="list-style-type: none"> <li>● Dynamic Jitter Buffer</li> </ul>
QoS	<ul style="list-style-type: none"> <li>● DiffServ</li> </ul>	<ul style="list-style-type: none"> <li>● DiffServ</li> </ul>
Caller ID	<ul style="list-style-type: none"> <li>● FSK (Bellcore)/DTMF generation</li> </ul>	<ul style="list-style-type: none"> <li>● FSK (Bellcore)/DTMF generation</li> </ul>
Console Port	<ul style="list-style-type: none"> <li>● 1 D-SUB 9 pin RS-232 port</li> </ul>	<ul style="list-style-type: none"> <li>● 1 D-SUB 9 pin RS-232 port</li> </ul>
Tone	<ul style="list-style-type: none"> <li>● DTMF / CPT (Call Progress Tone) generation/detection</li> </ul>	<ul style="list-style-type: none"> <li>● DTMF / CPT (Call Progress Tone) generation</li> </ul>
Network Support	<ul style="list-style-type: none"> <li>● Statically and DHCP for IP address assignment</li> <li>● Behind NAT Router or IP sharing device</li> <li>● PPPoE</li> </ul>	<ul style="list-style-type: none"> <li>● Statically and DHCP for IP address assignment</li> <li>● Behind NAT Router or IP sharing device</li> <li>● PPPoE</li> </ul>
Security	<ul style="list-style-type: none"> <li>● Command line interface and Web management interface Password protected</li> </ul>	<ul style="list-style-type: none"> <li>● Command line interface and Web management interface Password protected</li> </ul>
Configuration & Management	<ul style="list-style-type: none"> <li>● Console port, TELNET and Web Browser</li> </ul>	<ul style="list-style-type: none"> <li>● Console port, TELNET, Web Browser, and Welltech Provision Server</li> </ul>
System Upgrade	<ul style="list-style-type: none"> <li>● Firmware upgrade through network by TFTP/FTP</li> </ul>	<ul style="list-style-type: none"> <li>● Firmware upgrade through network by TFTP/FTP</li> </ul>
Power	<ul style="list-style-type: none"> <li>● Input AC 100V~240V Output DC12V.</li> </ul>	<ul style="list-style-type: none"> <li>● Input AC 100V~240V Output DC12V</li> </ul>
Certification	<ul style="list-style-type: none"> <li>● FCC Part 15, CE Class B, VCCI Class</li> <li>● FCC Part 15 Class B, CE Class B, VCCI Class</li> </ul>	<ul style="list-style-type: none"> <li>● FCC Part 15 Class B, CE Class B, VCCI Class</li> </ul>
Operation Temp	<ul style="list-style-type: none"> <li>● 0° C to 40° C</li> </ul>	<ul style="list-style-type: none"> <li>● 0° C to 40° C</li> </ul>
Humidity	<ul style="list-style-type: none"> <li>● 10% to 90% (Non-condensing)</li> </ul>	<ul style="list-style-type: none"> <li>● 10% to 90% (Non-condensing)</li> </ul>
Dimension and Weight	<ul style="list-style-type: none"> <li>● Dimension: 223mm(W) x 35mm(H) x 152mm(D)</li> <li>● Weight (unit): 1.4 kg</li> </ul>	<ul style="list-style-type: none"> <li>● Dimension: 223mm(W) x 35mm(H) x 152mm(D)</li> <li>● Weight (unit): 1.4 kg</li> </ul>

● WellGate 3504A Application Diagram

