



WellGate 1501 Switch/Hub + VoIP solution

The WellGate 1501 gateway integrated data and voice in one device. It is suitable for SOHO and small-to-medium enterprise application in Internet communication .



WellGate 1501 is a one-port telephone extension with built-in four ports Switch/Hub gateway. It provides Data transfer by 10/100Mbps, telephone services and T.38 fax over IP network with easy operation and configuration. Support DHCP features for Plug & Play operation. Provides Data transfer, VoIP and FoIP services to Home, SOHO and IP telephony call.

WellGate 1501 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 softphone or NetMeeting is installed in the PC.

WellGate 1501 implements H.323 or SIP protocol and IEEE 802.3 10/100Base-T Ethernet standard. It can easily connect to the H.323 compatible Gatekeeper. The traditional PBX functionality is provided with H.450 features together with Gatekeeper or IP/PBX Call Manager.

Web Browser, TELNET and console 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 coder, Gatekeeper and Peer to Peer mode selection, QoS setting and call progress tone setting.

Application:

- SOHO Telephony
- Multi-nation enterprise communication
- Four ports 10/100BaseT Switch/HUB
- 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

Features

- Support H323 and SIP protocol
- Automatically Gatekeeper Discovery
- Alternate Gatekeeper selection
- Provide Peer-to-Peer Mode (Non Gatekeeper needed) selection
- Line polarity reversal generation
- Provide call progress tone
- PPPoE
- Behind NAT router or IP sharing device
- E.164 Dial Plan
- DTMF detection/generation
- TFTP/FTP software upgrade
- 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
- IEEE 802.3 10/100 Base-T Ethernet standard
- CSMA/CD protocol for complete data integrity
- Easy-to-view LED indicators provide status for each LAN port
- Auto RJ-45 cross cable and straight cable switching.

Technical Specification:

Interface

- Four 10/100Base-T Ethernet RJ-45 ports (auto LAN cable Tx/Rx detection/correction)
- One DB-9 RS-232 COM port
- One RJ-11 Telephone port (FXS)
- DC 12V input (Provide external AC100-240Vac input adaptor)

FAX Support

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

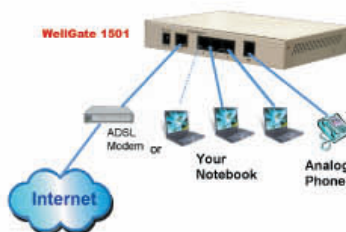
Audio Feature

- Audio Codec: G.711 (A/μ-law), G.723.1, G.729A, G.729
- VAD (Voice Activity Detection), CNG (Comfort Noise Generate)
- G.168/165 echo cancellation
- Dynamic Jitter Buffer
- Bad Frame Interpolation
- Completed voice band signaling support
- Generate Caller ID (DTMF or FSK)
- Provide In-band or Out-band 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

FXS interface

- 2-wire loop start
- Programmable AC impedance, Feeding voltage, Ring Voltage, Ring Cadence, Loop current and call progress tone

WellGate 1501 Application Diagram



- ON-Hook Voltage: 48Vdc
- Ring Voltage: 50 V RMS
- Loop Current: Constant 23mA

Management Features:

System configuration

- Console port: RS-232C port
- Web Browser
- TELNET

LED indicator for system status

- TEL: LED indicator for Telephone port status
- POWER: Power ON indication
- LINK / ACT: Link and Active status
- 10/100 * 4: 10 or 100Base-T status for 1~4 LAN port
- STATUS: SV-41 register to Gatekeeper status
- READY: SV-41 operation status

Power

- Input AC 100V~240V Output DC12V.

Environmental

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

Certification

- CE, FCC, VCCI

Dimension: 165mm(W) x 29mm(H) x 139mm(D)
Weight (unit): 1 kg



Rear Panel Drawing



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