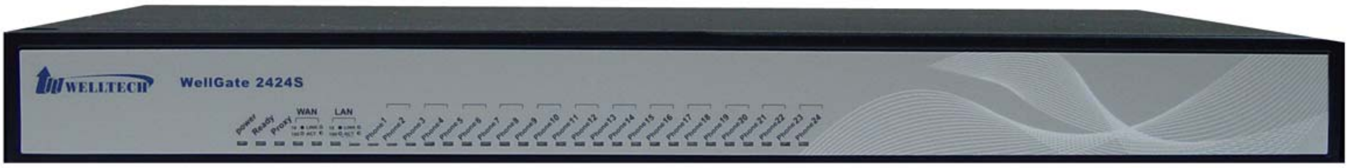
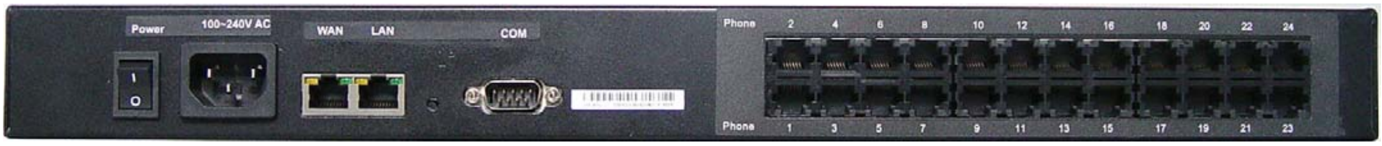
WellGate 2424S

24-Line FXS SIP IP Gateway



WellGate 2424S front view



WellGate 2424 rear view

Dual IP Stack : IPv6 and IPv4 Simultaneously

Support up to 16 SIP proxy Servers

Support 24 analog Phone sets at one IP address

Support different SIP Trunk to each FXS line

Auto HTTP Provision feature

Flexible Routes Plan and Dial Plan

Redundant Firmware Image

WellGate 2424S is an 24-Line FXS gateway with SIP protocol IP device which allows to connect 24 sets of analog telephone to make or receive VoIP call over Internet or VPN network through Internet Telephony service provider. This device is suitable for office user through ITSP service provider to install at office or branch office to call between different offices. It can be installed at basement of apartment or dweller building to provide analog phone set to each house to make/receive telephony internet call via Telco or ITSP's broadband device and network.

To select up to 16 SIP service Accounts

WellGate 2424S is appropriate to use up to 16 VoIP Service Providers, IP Centrex service and IP-PBX within offices and remote branch offices. One of 16 SIP Servers (or ITSP Service provider or alternative IP-PBX) can be configured freely at each line (FXS port) to make or receive IP Call. It provides 16 service platforms to select lowest rate or different purpose according to your dial number or country or application.

19-inch, 1U chassis easy to install

WellGate 2424S is an 19-inch, 1U chassis and suitable to install at Relay Rack for vast lines installation at office, Telco and ITSP service provider. 1-WAN and 1-LAN with NAT feature together with RS-232 DB-9 local console port allows engineer to configure and maintain this device locally and remotely. It can be installed at outdoor electric pole and sidewalk. There are 24 ports RJ-11 line connectors to connect to telephone cable via existing Telecom MDF. No more

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new cable is needed.

Flexible Dial plan and Route Plan Features

WellGate 2424S provides flexible Dial Plan from FXS to IP Trunk (SIP Soft Switch). Dial Plan is to configure in what condition the digits can be sent out to IP network. The dial inter digit time before dialing is configurable to meet busy users or home user. Dial Rule is able to detect the prefix code and maximum digits reached and then dial out automatically. The Digit Manipulation (DM) allows you to configure matched prefix code, digits length, start and stop digit position to be replaced digits as well.

Routes Plan is to configure the incoming and outgoing call routes which you desire this call to go out or allow to income. For instance, IP incoming call may Ring to FXS port with Priority, Cyclic or Simultaneously ring . You can also configure IP incoming call by Matched prefix digits, Matched incoming FXS line number and Matched digit length. For FXS outgoing call routes, the hunting type supports Priority, Cyclic or Simultaneously ring and select which SIP trunk (SIP Proxy Server) to go. FXS outgoing call routes also support by Matched prefix digits, Matched incoming FXS line number and Matched digit length. Both direction supports No Answer time out and Backup Routes.

SPECIFICATION

Interface:

Ethernet port (RJ-45, 10/100 base-T)
- 1-WAN port, connect to IP Network
- 1-LAN port connect to PC with NAT

Support Bridge, NAT and Gateway mode
Telephony port (RJ-11 x 24 pcs)
RS-232 Console port, DB9 Male
AC power input Jack
AC Power ON/OFF Switch
LED Indicator for System, SIP and FXS status

IP Network connection

IPv4 (RFC 791) and IPv6 Simultaneously
IPv6 Auto Configuration (RFC 4862)
IPv6 Only, IPv4 Only or dual stack
MAC Address (IEEE 802.3)
MAC Clone Setting
Vendor Class ID
IP/ICMP/ARP/RARP/SNTP
Static IP
DHCP Client (RFC 2131), WAN port
DHCP Server, LAN port
NAT Server (RFC 1631)
PPPoE Client
DDNS (DynDNS)
DNS Client
Firewall
URL Filter
IP Filter
MAC Address Filter
Application program Filter
Port Filter
Port Forwarding
Bandwidth Control (Download and Upload), Maximum Bandwidth and reserved bandwidth
UPnP Server at LAN port
Behind NAT, use DMZ for NAT traversal
SNTP with time zone and Daylight Saving
TCP/UDP (RFC 793/768)
RTP/RTCP (RFC 1889/1890)
IPV4 ICMP (RFC 792),
TFTP Client
VLAN Support 802.1Q, 802.1P
VLAN ID Range : 2 to 4094
VLAN Priority : 0 to 7
QoS : DiffServ (RFC 2475), TOS (RFC791, 1394)

SIP Protocol :

RFC3261 compliance
Support up-to 16 SIP Server Register Accounts
SIP UDP Protocol
Support SIP compact Form
Support SIP HOLD Type
SIP Session Timer (RFC 4028)
Configure SIP port and SIP QoS Type
MD5 Digest Authentication (RFC2069/RFC2617)
SIP PRACK (RFC3262)
Early/Delay Media support
Offer/Answer (RFC3265)
Message Waiting Indication (RFC3842)
Event Notification (RFC3265)
REFER (RFC3515)
Support Outbound Proxy
SIP Proxy Keep Alive time setup
Support Primary and Secondary SIP Server
Support STUN NAT Traversal
Support "rport" parameter (RFC 3581)

Audio Codec :

G.711 A-law/μ-law, G.729A, G.723.1 (6.3K, 5.3K), GSM-FR Full Rate (13kbps)
Select voice codec priority : Local or Remote

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Configure RTP port and RTP QoS Type
Silence Suppression
VAD/CNG
LEC : Line Echo Canceller
Max Echo Tail Length (G.168): 32, 64 and 128ms
Packet Loss Compensation
Input (Encode) Gain setup
Output (Decode) Gain setup
In-band/out of band DTMF (RFC4733, RFC2833 / SIP INFO)
Adaptive/Configurable Jitter Buffer
G.168 Acoustic Echo Cancellation
Dialing Plan with drop, replace, Insert dialing digits
Select First digit and Inter digit timeout duration (Sec)
Selectable Call Progress Tone
Support Specified Line Calling

Call Features :

Caller ID display DTMF (before/after 1st ring) and FSK (before 1st ring), ETSI and Bellcore
DTMF Caller ID start and stop BIT(A to F) configurable
Polarity Reversal before Caller ID or not
Tone Generation: Ring, Ring Back, Dial, Busy, call waiting, ROH, Warning, Holding, Stutter dial tone and disconnect tone
Configure Tone Frequency, Cadence, Level and Cycle
Global Country Based Tone Specification
NAT Traversal support STUN, UPnP and Behind NAT
Out-Band DTMF : RFC2833 and SIP Info
Configure DTMF send ON and OFF time
Configure DTMF detect Min. ON and OFF time
DTMF Relay Volume
Flash Time transmit via SIP Info (Enable or Disable)
Message Waiting Indication (Stutter Tone Notice)
Speed Dialing
Call Waiting/Switching between Calls
Call Forward (Busy, Unconditional, No Answer)
No Answer Time out
Block Anonymous Call
Hot Line
Call Hold
Call Transfer
Flexible Dial Plan
First digit and Inter digit time out timer setup
Manual SEND digits selection key
Retrieve transfer call from 3rd party by dial Code (default: *#)
Dial Rule : Prefix and Maximum digits, digit position to replace
Digit Manipulation (Drop and Replace Rule)
Extension Hunting
Support SIP Trunk up to 16 SIP Servers
Import and Export SIP Trunk configuration
Outgoing SIP Caller ID Selection
Accept desired SIP Proxy incoming calls Only
Flexible Routing Plan
    Prefix Match and Length
    Matched FXS Line (port) number
    Incoming call type: FXS or VoIP
    Priority Ring
    Cyclic Ring
    Simultaneous Ring
    Programmable Hunting Cycle
    Backup Routing with Digit Manipulation
    Default Routing
T.38 FAX: ECM, Redundant depth, Volume
FAX Relay : T.38 or Disable
Retrieve Voice Mail from IP-PBX
FXS Caller ID Mode : Transparent or Inhibit
SIP Caller ID Mode : Transparent or Inhibit
Support Peer to Peer Dialing
Flash Time Detection: range from 80 to 800 ms
ON-HOOK Voltage -48Vdc
Ring Sine Wave frequency : 10 to 70 HZ
Ring Level : 10 to 95 Vrms
Ring REN : 3
Configure Ring ON time : 0 to 8000 ms
Configure Ring OFF time : 0 to 8000 ms
Configure Ring Cadence, Frequency and Voltage
Support Polarity reversal for Billing
Service Up to 1 Kilo-meter distance to analog telephone set
Generate Current Drop Time (Open Loop Disconnect time)

MANAGEMENT :

Administrative Telnet CLI and HTTP, HTTPS with desired Port number
Enable/Disable HTTPS and Telnet Service
http provision through MAC address
RS-232 console cable to configure WAN/LAN IP Address
Multilingual Web User Interface
3 Levels of User Access Right with Password protection (Administrator, Supervisor and User)
HTTP/HTTPS Service Access limitation from WAN port
Provides System Status Logs
Status display: Network, Line, SIP Trunk status
Diagnostics (debug through Syslog Event Notice)
Debug in real time by Telnet
8 Debug Level: Emergency, Alert, Critical. Error, Warning, Notice, Information, Debug
Auto Provision via HTTP Server
Support SNMP V2/Trap
Configuration Backup/Restore
Dual Firmware Image Backup
Reset to factory Default
** Support Welltech proprietary encryption protocol at SIP Signal and Voice codec during transmitting to IP network in order to Anti-ISP block of VoIP call. This feature only be available with Welltech SIP server or SIPPBX6200 IP-PBX

Environmental :

Actual Dimension: 44(W)×4.4(H)×26.2(D) CM
19-inch, 1U chassis with Relay Rack Mount Bracket
Weight: 4.3kg (One unit with packing)
Operating Temp. & Humidity
- Temp.: 0°C~45°C (32°F~113°F)
- Humidity: 10%~90% relative humidity, non-condensing

Power Input: AC100V to 240V, 50/60Hz

WELLTECH
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Country of origin:
Made in Taiwan

Packing Accessories

WellGate 2424S gateway	x 1 pcs
Relay Rack Mount Bracket	x 2 pcs
AC Power cable	x 1 pcs
CD User Manual	x 1 pcs

Warranty
One year

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