



GoldenNet Technology Inc.

EMG-202S

Ethernet/Modem Gateway (SIP)



DESCRIPTION:

The Ethernet/Modem Gateway EMG-202S is a next generation VoIP Gateway that provides a cost-saving solution for small business/home users on their telecommunication needs. The EMG-202S is following the open standard RFC-3261 SIP protocol to make sure that the user can easily install this device on most of the existing VoIP(Voice over IP) services. By using the state-of-the-art DSP(Digital Signal Processing) technology, the EMG-202S delivers outstanding voice quality that is very comparable to the PSTN voice quality.

With the built in LCD display, the user can easily configure the EMG-202S for first time installation in a few minutes. And besides the advanced VoIP functions in easy installation, EMG-202S also provides flexible call out function between PSTN call and VoIP call through Ethernet or modem connection. EMG-202S is your best VoIP solution in the new generation communication.

FEATURES :

- Built-in Modem function(Optional) :
 - The built-in V.90 modem function let EMG-202H dial-up to any ISP and connect to Internet easily.
 - The WAN Port can also be used to connect to Internet by using DHCP, static IP or PPPoE configuration flexibly.
- Choose between PSTN call and VoIP call :
 - The telephone set connected to EMG-202S can make either PSTN call or VoIP call easily.
 - When the EMG-202S is powered off, the connected telephone set can make PSTN call directly.
- Following RFC-3261 SIP standard :
 - Support password authentication using MD5 digest and RFC-2833 for DTMF relay.
- Dynamic IP support(DHCP and PPPoE) :
 - Getting ip from DHCP server using DHCP protocol or through ADSL modem using PPPoE protocol, automatically reconnect when PPPoE lost connection.
- Passing through NAT devices :
 - Support outbound-proxy configuration to make outgoing and incoming calls under any NAT devices(even under two layer NAT devices).
- Remote software upgrade capability (via ftp) :
 - FTP protocol provides reliable remote upgrade through Internet.
- Advanced Digital Signal Processing (DSP) technology to ensure superior audio quality :
 - Hardware System on a Chip solution with built in DSP processor makes sure the perfect voice quality.
- Support G.723.1(6.3k/5.3k), G.729A/B, G.711(A-law/U-law) voice codecs :

- Following ITU-T standard to support best compatibility.
- Support Silence Suppression, VAD (Voice Activity Detection), CNG (Comfort Noise Generation) :
 - Silence suppression can save about half of the network bandwidth needed during normal VoIP conversation.
- Ping function supported :
 - Ping other device in the Internet from EMG-202S to make sure the Internet connection is ok.
- System status display on the LCD panel :
 - User can easily know if the EMG-202S is working normally and monitor the system status(network status, registering status) from the LCD panel display.
 - A “PKT Trace” function is supported to display the packets received on the LCD panel to let administrator find the network problem on line.
- Call with or without proxy server (direct IP dialing) :
 - Following standard SIP protocol and is compatible with most of existing SIP Proxy server.
- Provide easy configuration methods :
 - Very easy setting by keypads on the phone set.
 - Setting by web browser.
- Support RFC-3261, TCP/UDP/IP, RTP/RTCP, HTTP, ICMP, ARP, DNS, DHCP, NTP/SNTP, FTP, PPPoE protocols
- Interoperable with most of the existing SIP VoIP devices(IP-phone, gateway, proxy server) :
 - Please refer to the Interoperability List for the complete listing.
- The LAN/WAN Port works for paralleled Ethernet cable and crossed Ethernet cable.

HARDWARE SPEC :

Spec\Model	EMG-202S
Phone Port	1xRJ11 connect to a telephone set. This telephone set can make PSTN call through the line port or VoIP call through Ethernet or modem connection.
Line Port	1xRJ11 connect to the PSTN line. (Optional)Built-in V.90 modem function. Work between PSTN call and modem function
LAN Port	1xRJ45 10/100 Base-T Ethernet, line auto-sensing/switching.
WAN Port	1xRJ45 10/100 Base-T Ethernet, line auto-sensing/switching. (Option)Power Over Ethernet 802.3af function.
LCD display	2x16 characters
Universal Switching Power Adaptor	Input: 100-240V AC Output: +12V DC, 350mA
Dimension	146mm(W)x80mm(D)x32mm(H)
Weight	500 g
Operating Temperature	32 - 104 °F (0 – 40 °C)
Humidity	10%-95% (non-condensing)
EMI Compliance	UL/EN/FCC Class B