

MG705A

UNI_{Net}TM GSM Mobile Gateway



- VoIP and GSM cellular enables most KSU/PBX systems
- Remote office long-distance savings
- Low-cost IP functionality
- Saving the money by low rate "In-net" GSM call between the mobile and fixed terminal.
- Maximizes existing data connection value
- Web-based administration



Low-Cost VoIP / GSM Functionality allowing mobile phone user to call the world at local rate

UniNet Mobile Gateway installs in minutes giving any phone system an instant VoIP and GSM cellular upgrade without the cost of a new system. Remote offices can easily be reached while avoiding long-distance charges using the existing IP or GSM wireless connection. UniNet is an economic solution without sacrificing functionality.

Instant Connectivity

This non-proprietary adjunct gateway connects to an PSTN trunk on an existing telephony system to provide Voice-over-IP connectivity and GSM wireless to other VoIP enabled devices. An analog phone can also be connected directly to the UniNet mobile gateway giving a remote site or home office simple VoIP connectivity right to the main office. This allows telecommuters to avoid the hassle of adding up all business related long distance charges by using both IP and GSM to access the main office's telephone system to place outbound long distance calls instead.

Express Installation

The UniNet Mobile gateway installs easily connecting directly to PSTN trunk to provide VoIP and GSM cellular capability on any phone system.

Easy Administration and Flexible Connectivity

All administration is easily performed through a web browser. Remote configuration changes are quick and simple. A build-in Auto attendant provides various connect selection to FXS telephone/PBX or Internet.



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Specifications

Highlights

Enhanced QoS function

The MG705A model offers enhanced QoS functionality due to traffic-based and WAN bandwidth management. By limiting the traffic rate of the up-link (WAN) port the MG705A reflects the actual broadband up-link speed. The MG705A also prioritizes voice over data traffic effectively removing one of the most common sources of service degradation in IP Telephone networks.

Toll Quality Voice

The MG705A deliver clear, high-quality voice communication in a variety of network conditions. They are interoperable with common telephony equipment like voice mail, and interactive voice response systems.

Large scale deployment

The MG705A offers key features and capabilities for service providers to provide customized services to their subscribers. The MG705A can be remotely provisioned and configured. This saves providers the time, cost and hassle of managing, pre-configuring and re-configuring customer premises equipment.

Support for PPPoE or DHCP

Point to Point Protocol over Ethernet (PPPoE) is a standard for connecting multiple units through the same router or CPE device. By using PPPoE service providers are able to provide access control and billing functionality in a manner similar to dial-up services, in addition to providing type of service on a per user, rather than a per site basis. In many areas of the world PPPoE is a requirement for deploying devices in IP networks. The MG705A also supports DHCP which makes it easier to deploy and maintain IP telephony networks.

■ Designed to fit your requirements

Mode	Mobile Gateway Description
MG705AH	2 POTS (FXS) ports for analog phone 1 GSM Engine for GSM access 1 optional GSM connector reserve for upgrade 1 WAN port for internet access 4 LAN port with QoS for subnet PCs / LAN
MG705AC	2 POTS (FXS) ports for analog phone 2 GSM Engines for GSM access 1 WAN port for Internet access 4 LAN port with QoS for subnet PCs / LAN

■ VoIP Protocol Stack

- SIP v2 - Session Initiation Protocol Version 2 (RFC3261)
 - * Power - On auto registration
 - * Re-registration with SIP Proxy Server (configurable interval setting)
 - * SIP over UDP
- SDP stack (RFC2327)
- SIP authentication (HTTP Digest with MD5)

■ Phone User Services

- Place / Cancel outgoing call
- Answer incoming call
- Flexible dial plan support

■ GSM Interface

- Duar Band 900 / 1800 / 850 / 1900MHz
- Compliant with ETSI GSM
- Antenna Impedance: 50ohm SMA Female



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■ Voice Features

- Audio Codec Support (for optional)
G.711(A-law and Mu-law) / G.723.1 / G.726 (16/32 kbps) / G.729 AB
- Exchange of Codec capability
- Dynamic Payload
- DTMF In-band and Out-of-Band (RFC2833)
- Tone Generation
Dial Tone / Ring Back Tone / Busy Tone / Warning Tone
- Adaptive Jitter Buffer
- Packet Loss Concealment
- VAD - Voice Activity Detection
- CNG - Comfort Noise Generation
- Attenuation / Gain Adjustments
- Call progress tone generation

■ GSM Interface

- Dual Band 900 / 1800MHz or 850 / 1900MHz
- Compliant with ETSI GSM
- Antenna Impedance: 50ohm SMA Female

■ Security

- Password Protected Administration
- Admin and User Access Authority
- HTTP Digest - Encrypted Authentication via MD5

■ Provisioning, Administration and Maintenance

- *Web Browser Administration and Configuration via Integrated Web Server*
 - * TCP / IP Setting (WAN & LAN Setting, PPPoE Setting, Static Route, Route Monitor, NTP, DHCP, DHCP Table, Virtual Server)
 - * Telephony Setting (SIP, FXS, AUDIO)
 - * Dial Plan (Digital Length Table, Route Policy Table, Caller ID Table, SIP Number Table, User Password Table, MR Table, MA Table)
 - * System Management (Upgrade, Reset, Config, Login Setting, Reboot)
 - * Advanced Setting (VAA Setting, Quality of Service)

■ Phone User Services

- Place / Cancel outgoing call
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■ Data Networking

- MAC Address (IEEE 802.3)
- Ethernet (10BaseT / 100BaseTx optional)
- IPv4 - Internet protocol Version 4 (RFC791)
- ARP - Address Resolution Protocol (RFC826)
- DHCP Server / Client - Dynamic Host Control Protocol (RFC2131)
- DNS - Domain Name Server
- NAT - Network Address Translator (RFC 1631)
- NTP - Network Time Protocol
- ICMP - Internet Control Message Protocol (RFC792)
- TCP - Transmission Control Protocol (RFC793)
- UDP - User Datagram Protocol (RFC768)
- RTP - Real Time Protocol (RFC1889)
- PPPoE - Point to Point Protocol over Ethernet (RFC2516)
- Type of Service - TOS (RFC791)
- DiffServ (RFC2475)

■ Telephone Set Management

- VAA Recorder

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Specifications

Physical Interfaces

MG704AH	
RJ-45	5 ^a
RJ-11	2
Mobile RF coaxial port	1
SIM socket	1
Two Ethernet 10/100Mbps (IEEE 802.3/802.3u) Internal ethernet switch supporting - Auto MDI/MDXI - Auto negotiation	

Indicators

- WAN Link status LED
- LAN Link Status LED
- FXS Call status LED
- Mobile Status LED
- Mobile RSSI Status LED
- Power status LED
- SIP Register Status LED

Temperature:

- Operating temperature: 0°C to 45°C
- Storage (non-operating): -10°C to 60°C

Mechanical and Physical

- Housing: Anti-Fire ABS plastic material in black colour
- Dimensions: 208(W) x 148(L) x 42(H) mm
- 15V DC, 900 mA power adaptor, 2,5 mm diameter

Humidity:

- Operating: 20% to 80% non-condensing
- Storage (non-operating): 10% to 90% non-condensing

