

GSM Gateway

Paradoxes gateway enables cheap mobile-mobile calls instead of expensive fixed-mobile calls. The gateway can e.g. be connected to a PBX or IPBX system. So all calls into cellular networks will be routed via the gateway instead of via the PSTN (public switched telephony network). GSM gateways use integrated wireless modules (the same types of wireless modules are used in standard cellular phones) as well as integrated antennas and one or even multiple SIM cards per wireless module.

GSM analog trunk



MT-Series

Feature

- 1,4,8 ports Conversion of wire & wireless communication
- Auto-select economic route
- Code Conversion Setting : Through the connection towards local PSTN line, the phone calls will proceed with code-transfer dialing process.
- Voice volume adjustment
- Set the Allow-to-Dial Code (GSM Prefix No. Setting (50 sets))
- Set GSM dial-out code amount
- Polarity reversing function
- Definition of DTMF reversing signal
- Limit of communicating time
- GSM function of dialing out the prompt voice
- When not connecting to Telephone Office line, GSM will provide the forced dial-out function
- Set up GSM extra dialing local code
- Set up extra dialing local-code to PSTN
- GSM simulated Ring Back Tone function
- GSM isn't ready, call will be forced to dial out from PSTN
- Follow Me , Call-transfer

GSM VoIP trunk



MV-Series

Feature

- 1,4,8 ports VoIP(SIP),GSM conversion.
- VoIP(SIP),CDMA conversion. CDMA 2000(800/1900MHz) VoIP(SIP),UMTS conversion .
- * for all world and Japan (SoftBank Mobile/Docomo)
- 50 sets of LAN --> MOBILE routes setting.
- Voice response for setting and status(dial in from mobile).
- For call termination (VoIP to GSM/CDMA/UMTS) and origination (GSM/CDMA/UMTS to VoIP).
- Standard SIP(RFC2543,3261) protocol,Communicates with other gateway or PC
- Receive SMS and Send SMS (CDMA version,sms feature is unavailable)
- Allows your program Send/ receive SMS with AT Command
- Call Back feature
- All functions can be set on web.

GSM VoIP/E1-PRI trunk



DM-Series

Feature

- each E1/VoIP channel will connect to the corresponding output GSM Port.
- Auto-routing for the same network : system will search for the GSM port of the same network to dial out, according to the prefix of the out-dialing number from the incoming E1/VoIP channel.
- Password validation : operator has to input the correct password for further setup of the system parameters.
- Hiding the CLID : user can choose whether to hide the CLID of the GSM port or not.
- Calling time : user can assign the calling time for each sheet of the SIM card. When the time runs out, system will block this GSM port, or switch to next unused SIM card (in the case that SCE or SCBox is installed).
- CDR is provided for further use of the billing system, Backup of CDR can set up the path of CDR
- SCE test : system can auto-test the SIM card switching function to ensure the successful switchover without letting the SIM card be used repeatedly.

GSM Gateway



SYSTEM SPECIFICATION

Line/ Trunk

- Phone Impedance: Below DC 1k Ω , AC 600 Ω . (not include line)
- Phone Ring Output Voltage: 45V rms.
- Phone Signal (DTMF) Standard: -3dbm~ -24dbm. Phone Signal (DTMF) Time: 50~100ms.
- DTMF Frequency Rate Error: $\pm 1\%$
- Feeder Voltage: 48V.

GSM

- Frequency bands:
Quad band: 850/900/1800/1900MHz
Compliant to GSM phase 2/2+
 - Class 4 ([2W@850/900](#) MHz)
 - Class 1 ([1W@1800/1900](#) MHz) GSM
- 3G/UMTS Version for all world and Japan (SoftBank Mobile/Docomo)
- 3G: EDGE/GPRS 850, 900, 1800, 1900 MHz / HSDPA/UMTS 850, 1900, 2100 MHz CDMA 2000(800/1900MHz)

VoIP

- Protocols: SIP (RFC2543, RFC3261)
- TCP/IP: IP/TCP/UDP/RTP/RTCP, CMP/ARP/RARP/SNTP,
- DHCP/DNS Client
- IEEE802.1 P/ Q, ToS/ DiffServ,
- NAT Traversal, STUN, uPnP, IP Assignment
- Static IP, DHCP, PPPoE
- odec: G.711 u-Law, G.711 a-Law, G.729A, G.729A/B
- Voice Quality, VAD, CNG, AEC, LEC, Packet loss

Power Supply

AC Adapter: Input 110V/220V AC

Operating Conditions

The environment of installation site is suggested to meet the following Environmental Parameters.

- Operating Temperature: 0 - 50 $^{\circ}$ C
- Storage Temperature: -10 - 70 $^{\circ}$ C
- Humidity (RH): 10~80%, non-condensing

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