AbovEdge™ MA series Intelligent VoIP Gateway

The **AbovEdge™** MA is a series of high performance Voice over IP (VoIP) gateways. The built-in IVR function and intelligent routing capabilities make it an ideal product for businesses to implement cost saving IP telephony without changing their dialing habits. The AbovEdge™ MA series supporting standard VoIP protocol can be easily merged into an existing VoIP domain as an origination and/or termination node(s). The compact rack-mountable unit of AbovEdge™ MA provides versatile VoIP functions with the most competitive price. Its advanced processor and in-house developed technology ease the process of adding intelligent functionality and make it a perfect solution to fulfill leading telecommunications and business requirements.

FEATURES

- ► Conforms to IETF latest SIP protocol RFC-3261
- ► Peer-to-peer or routing through a proxy server
- ► DTMF dialing, Support Out-Band DTMF delivery
- ► Dynamic jitter buffer to improve voice quality
- ► Maximum length of extension line connect to FXS = 1 km
- ► Caller ID receiving/generating function
- ► Polarity Reverse signal detection on FXO port
- ► Polarity Reverse signal insertion on FXS port
- ► Call progress detection (dial tone, busy tone, ringback tone)
- ► Remote system maintenance and upgrade
- ► Intelligent Routing Management
  - o Backup route
  - o Routing by time section
  - o Routing by Answer Success Ratio (ASR) condition
  - o Routing as trunk group distribution
- ► Call Incoming Management
  - o Hotline mode
  - o DID mode
  - o DNI/ANI re-dialing by dial tone or IVR
  - o Built-in IVR for Calling Card System or alike application
- ► System call back
- ► CDR exporting, support Syslog CDR
- ► Support TeleSynergy Web Server Management system
- ► On line configuration management, status monitoring and fault management

SPECIFICATIONS

- ► Call Control: SIP
- ► Voice Codec：G.711, G.729A , G.723.15.3/6.3kbps
- ► Silence Suppression: G.729B for G.729A, G.723.1A for G.723.1
- ► Echo cancellation: Comply with G.165 & G.168
- ► Gain Control：±18db
- ► Media stream：RTP / RTCP with jitter buffering
- ► DTMFdialing/receiving：EIA464 & RFC2833 Out-Band
- ► Analog Trunk Interface:
  - o Loop start
  - o Loop current: 20 - 80 mA polarity insensitive
  - o Loop voltage polarity reverse detection
  - o Interface impedance：600 ohms
  - o Frequency response: 200 -- 3400 Hz
  - o Ring detection: 30Vrms -- 140Vrms (16 -- 68 Hz)
  - o Pulse dialing: 10/20 PPS, M/B ratio 33/66, 40/60 selectable
  - o Caller ID receiving: Bellcore GR-30-CORE & DTMF
  - o Loop current drop detection
- ► Extension Interface:
  - o Loop start
  - o Loop Range：0~200 ohms
  - o DC Supply: 48 V (standby)
  - o Loop current: 26 mA
  - o Interface impedance：600 ohms
  - o Frequency response: 200 -- 3400 Hz
  - o Ringing: 56 Vrms (20 Hz)
  - o Caller ID generation: Bellcore GR-30-CORE / DTMF
  - o Message light: Bellcore FSD 01-02-2000
  - o Flash detection & programmable Flash duration
- ► SIP Protocol：RFC-3261 SIP / RFC-2833 out-band DTMF / RFC-2327 SDP / RFC-3264 offer / answer model
- ► Management：Web / SNMP / Telnet / Console
- ► Connector:
  - o Analog POTS line：RJ-45
  - o WAN: RJ-45 x 1; LAN: RJ-45 x 1
- ► Input Voltage, Frequency: AC 100V~240V, 50~60 Hz
- ► power consumption:40W(max.)
- ► Dimension: 438mm x 44mm x 173 mm, 1U
- ► Operating Temperature:0℃ to 45℃
- ► Storage Temperature: -20℃ to 70℃
- ► Ordering Information:
  - o MA-0404: 4 FXO / 4 FXS / 4 VoIP
  - o MA-0808: 8 FXO / 8 FXS / 8 VoIP

*Information and specification are subject to change without prior notice.