

# AbovEdge™ Analog MG Series Intelligent Media Service Gateway

**AbovEdge™ Analog MG Series** provides with processing resources for VoIP communication and voice services to work with AbovEdge™-SS/CS IP PBX call server to physically extend AbovEdge™ IP-PBX features and functions to legacy analog trunk lines and extensions simply through Internet connection. With AbovEdge™ Analog MG series, SMB can fully enjoy and benefit from pure IP communication while being connected through their existing subscribed service from local carrier, and/or preserving their previous investment of analog extension phoneset. AbovEdge™ MG-0401 can also provides fully featured voice-based services like voice mail (VM), Auto Attendant (AA), interactive voice response (IVR), and conference services.

### Local Survival and Live Link Recovery

When AbovEdge™-MG is deployed remotely in distributed multi-location communication network; it can operate as independent PBX in the remote office even if the Internet connection fails. Once the Internet connection is re-acquired, AbovEdge™-MG will automatically recover the distributed networking linkage without manual setup or restarting the system. With Local Survival and Live Link Recovery from AbovEdge™, the impact of disconnected Internet on business usual operation and maintenance effort of administrator can be minimized.

### FEATURES & BENEFITS

- 1U 19" Rack Mountable
- SIP compliant VoIP ports
- Support FXO trunk / FXS extension
- Local survival and live link recovery
- Intuitive LED status indicators
- Remote on-line firmware upgradable
- Cost-effective and easily manageable through remote web-based user interface



### SPECIFICATIONS

#### VoIP and Voice Specification:

- Communication Protocol: RFC-3261 SIP, RFC-2833 out-band DTMF signaling, RFC-2327 SDP, RFC-3264 offer/answer model, RTP / RTCP with jitter buffering, QoS for IP TOS (Type of Service)
- Codec Support: G.711, G.729A, G.723.1 6.3/5.3kbps; Selectable and auto codec negotiable
- DTMF dialing/ receiving: EIA464 & RFC2833 out-band
- Programmable gain control (±18db)
- Echo Cancellation: Comply with ITU-T G.165/168
- Silence Suppression: G.729B for G.729A, G.723.1A for G.723.1
- T.38 Fax Relay supports Group III V.17, V.21, V.27ter, V.29, V.33 (2.4 to 14.4 kbps)
- Auto Attendant/ interactive voice response/ voice mail
- On-line detection: remote hang-up, user defined tone
- Call Progress detection: ringback tone, busy tone, user defined tone
- ADSI Tone generation
- Network interface: 2 Fast Ethernet ports (10/100 Base-T auto-detection); Connector: RJ-45 × 2 (1 × WAN, 1 × LAN)

#### Analog Trunk Interface:

- Loop start
- Loop voltage polarity reverse detection
- Loop current: 20 ~ 80mA, polarity insensitive
- Interface impedance: 600 ohms nominal
- Frequency response: 200 ~ 3400Hz
- Ring detection: 30Vrms ~ 140Vrms (16 ~ 68Hz)
- Pulse dialing: 10/20 PPS, M/B ratio 33/66, 40/60 selectable
- Caller ID receiving: Bellcore GR-30-CORE & DTMF
- Line Status Indicator: Ringing, Line In use, Loop Current Off, Not in use (MG-0401 only)
- Connector: 4 port RJ-11 (MG-0401)  
1/2 port RJ-45 (MG-0400/0800/0404)

#### Analog Extension Interface:

- Loop start
- Loop Range: 0 ~ 200 ohms
- DC Supply: -48V (standby)
- Loop current: 26mA
- Interface impedance: 600 ohms
- Frequency response: 200 ~ 3400Hz
- Ringing: 56Vrms (20Hz) / 60mA
- Caller ID generating: Bellcore GR-30-CORE / DTMF
- Message waiting indicator: Bellcore FSD 01-02-2000
- Flash detection & programmable flash duration
- Connector: 1 port RJ-11 (MG-0401)  
1/2 port RJ-45 (MG-0400/0800/0404)

**Power Supply:** Input: AC 100V ~ 240VAC, 50 ~ 60 Hz

**Dimension:** 438mm×333mm×44mm (MG-0401 only)

438mm×173mm×44mm (MG-0400/0800/0404)  
(WxDxH)

#### Environment:

- Operating Temperature: 0 °C to 45 °C
- Storage Temperature: -20 °C to 75 °C
- Humidity: 20% to 90% non-condensing

#### Ordering Information

**MG -0X0Y**  
 └───┬─── Total FXS ports  
 └───┴─── Total FXO Ports