AbovEdge MA-5335
T1/E1 VoIP Trunking Gateway

AbovEdge MA-5335 is a high density VoIP gateway product that provides digital trunk interface supporting 1 T1/E1/PRI channel.

The **AbovEdge** family is a series of high performance standalone Voice over IP (VoIP) gateway that compatible with most phone systems. The built-in IVR function and intelligent routing capabilities makes AbovEdge series the ideal product for businesses to implement cost saving IP telephony. 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).

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
- ► Jitter buffer to improve voice quality
- ► Maximum length of extension line connect to FXS = 1 km
- ► Caller ID receiving function
- ► 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
- ► Capable to work with TeleSynergy's SS7/ISUP solutions
- ► Support proprietary TeleSynergy Billing solution
- ► Support TeleSynergy proprietary Web NMS Server Management system
- ► On line configuration management, status monitoring and fault management

SPECIFICATIONS

- ► Call Control: SIP
- ► Voice Codec：G.711, G729A, G.723.1
- ► Silence Suppression: G.729B for G.729A, G.723.1a for G723.1 (6.3k/5.3k)
- ► Echo cancellation: G.165 / G.168
- ► Fax protocol: T.38 FAX relay supports Group III V.17, V.21, V.27ter, V.29, V.33 (2.4 to 14.4 Kbps)
- ► Gain Control：±31db
- ► Media stream：RTP / RTCP with jitter buffering
- ► Signaling
  - o ISDN PRI: ITU Q.931
  - o Wink start: Bellcore GR-506
  - o Hot Line
  - o MFR1
  - o MFR2
- ► T1/E1 Interface:
  - o Frame format:
    T1: ESF/SF
    E1: CRC4
  - o Line code:
    T1: AMI, B8ZS
    E1: HDB3
  - o CRC check capability
  - o Load impedance: T1 -100 ohm, E1 – 75/120 ohm, +- 5%
  - o Clock source: internal timing or recover clock from T1/E1 port
  - o Clock frequency departure: less than +- 50 ppm
- ► SIP Protocol：
  - o RFC-3261 SIP
  - o RFC-2833 out-band DTMF
  - o RFC-2327 SDP
  - o RFC-3264 offer/answer model
- ► Management: Proprietary Web NMS / SNMP / Telnet / Console
- ► Connector:
  - o 1 RJ-45 phone jack for T1/E1 interface
  - o WAN/LAN: RJ-45
- ► Power: 90~240V，47~63Hz 50W(max)
- ► Dimension: 440mm x 44mm x 173mm, 1U
- ► Weight: net weight 2.8kg, gross weight 3.8kg
- ► Operating Temperature:0℃ to 45℃
- ► Storage Temperature: -10℃ to 70℃