

VoIP Media Trunk Gateway/Media Converter from E1/T1 to Ethernet

Model number: AZ-MG-8E1, AZ-MG-16E1 and AZ-MG-52E1



AZ-MG-8E1 (1U height) (8E1 ports)



AZ-MG-16E1 (2U height) (16E1 ports)



AZ-MG-52E1(3.5U height) (52E1 ports)

Overview:

VoIP media gateway is a cost effective and standards-compliant VoIP Media Trunk Gateway from E1/T1 to Ethernet, which is generally called TG/SG or VoIP Voice Gateway, designed for enterprise users and ITSP (Internet Telephony Service Provider) environments. AZ-MG900/AZ-MG1000 locates on the interface of PSTN and IP network, providing signaling transformation between SS7, ISDN PRI, R2/CAS, Q.SIG, V5.2, DPNSS signaling and SIP & H.248 Protocol, as well as media transfers between the PSTN and IP network.

With modular design, it's easily expandable from 1E1/T1 to 52E1/T1.

Application:

- IPCC(IP Call center);
- IP dispatcher;
- Unify communication;
- E1 Trunking port for operators, traditional switch, IP soft switch and software of IPCC;

Specification:

- Signaling support:
 - SS7 (ITU-T Q.700 series), 24 bits/14 bits PC, ISUP/TUP;
 - ISDN-PRI (ITU-T Q.931, Q.921);
 - V5.2 (ITU-T G.964, G.965)
 - R2/CAS
 - Q.SIG



-DPNSS

- **VoIP protocol support:**

-SIP

- RFC3326 (Reason header in SIP messages)
 - RFC3372 (SIGTRAN and SIP-T)
 - RFC2327 (sdp)
 - RFC3398 (ISUP-SIP Mapping)
 - RFC3261 (sip)
 - RFC5806 (Diversion Indication in SIP)
 - RFC2833 (DTMF)
 - RFC3362 (t.38)
 - RFC 3261 (SIP 2.0)
 - RFC3204 (MIME media types for ISUP and QSIG Objects)
 - RFC3578 (Mapping of ISUP overlap to SIP)
- H.248

- Codec:G.711 U-Law and A-Law, G.711 Appendix 1, G.723.1 and G.723.1 Annex A, G.729 Annex A and Annex B, G.726, GSM, ARM, ILBC;

- Fax Support T38 and pass through;

- Network Protocol: IP, NAT, ICMP, ARP, HTTP, BOOTP, FTP, TFTP, DHCP, PPPOE, SNMP, Diff-Serv

- Advanced Voice Processing Technology: Voice Activity Detection (VAD), Comfort Noise Generation (CNG), Echo Cancellation, DTMF, Caller ID, and Flexible input/output Gain Control.

Capacity:

- 1U equipment AZ-MG-8E1 can have 2pcs of independent E1 modules, 2U equipment AZ-MG-16E1 can have 4pcs of independent E1 modules, 3.5U equipment AZ-MG-52E1 can have 13pcs of independent E1 modules ;

- Each Module contains:

- 1~4 E1/T1;
- 128 G.711 Channels;
- 64 G.723, G.726, G.729 Channels;
- 32 T.38 Fax Channels, 64 Conference Bridge;

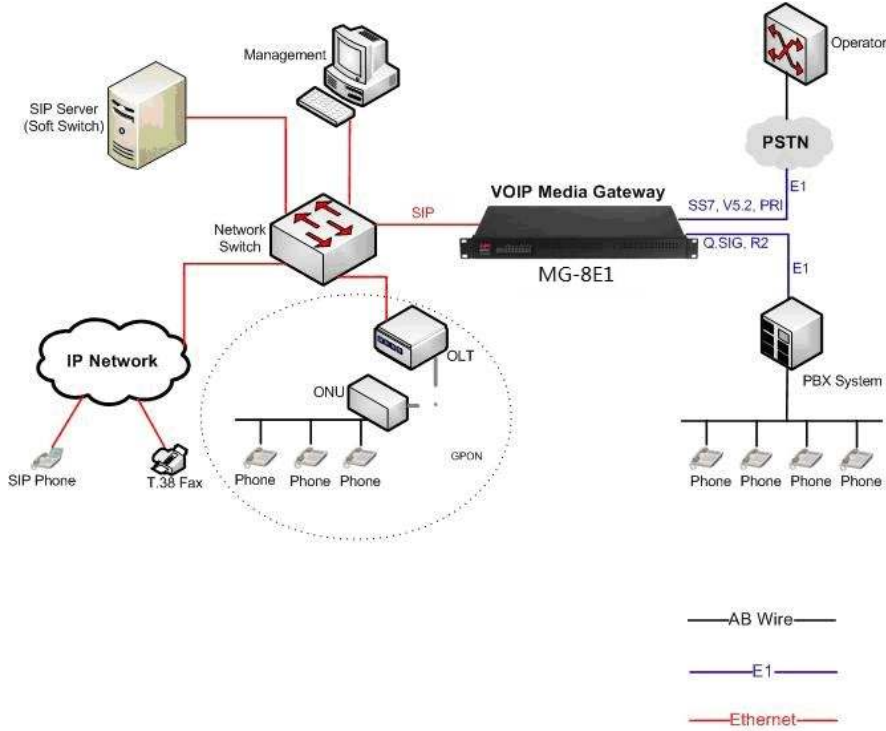
Physical Specification:

Item	AZ-MG-8E1	AZ-MG-16E1	AZ-MG-52E1
Slot of PSU	Built-in	Built-in	2
Qty of E1/T1 Module	1-2	1-4	1-13
Qty of E1/T1 Port	1-8	1-16	1-52
VoIP Channel	32-256	32-512	32-1664
Ethernet Port	2 (10/100/1000M Base-T)		
Console Port	1 (RS232 PORT)		
SIP Compatibility	CISCO、Siemens、AVAYA、Huawei、ZTE		
Input Voltage	DC -48V or AC 110-240V		DC -48V or AC 110-240V (Double)
Power	30W	80W	150W
Dimension	480mm*286mm*44mm (1U)	480mm*300mm*88mm (2U)	480mm*300mm*160mm (3.5U)
Weight	5KG	7.5KG	11KG
Working Environment	0°C~50°C, Less 80%		

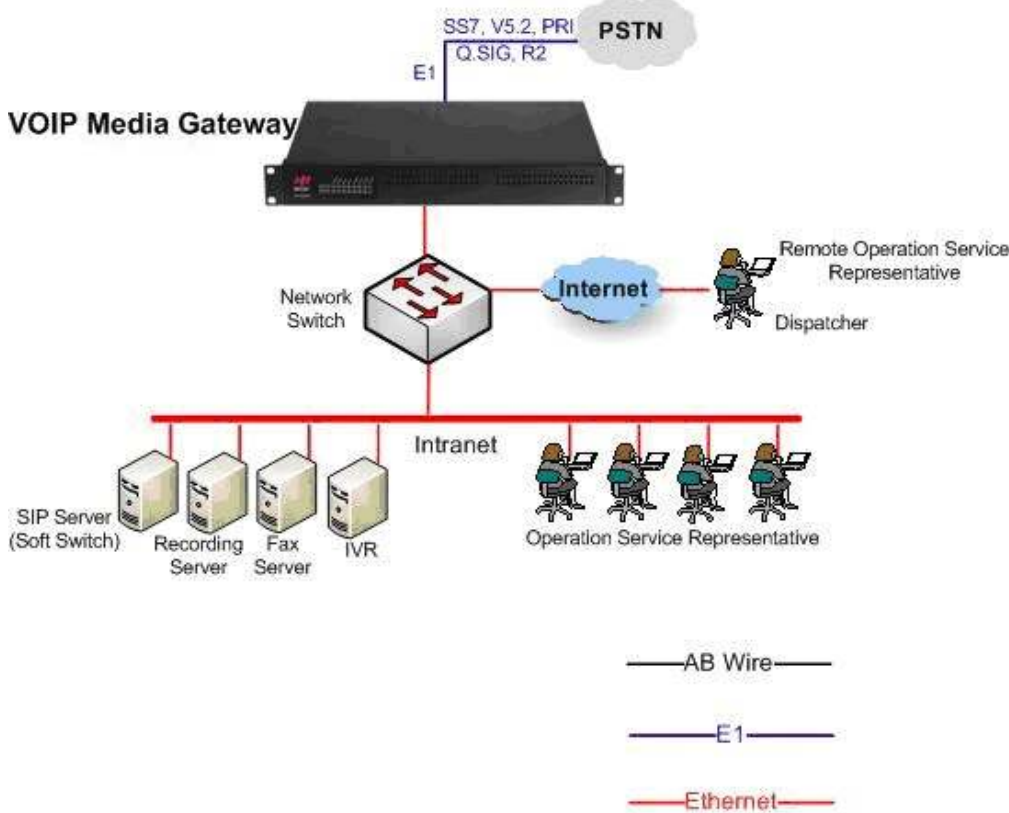


Application Topology:

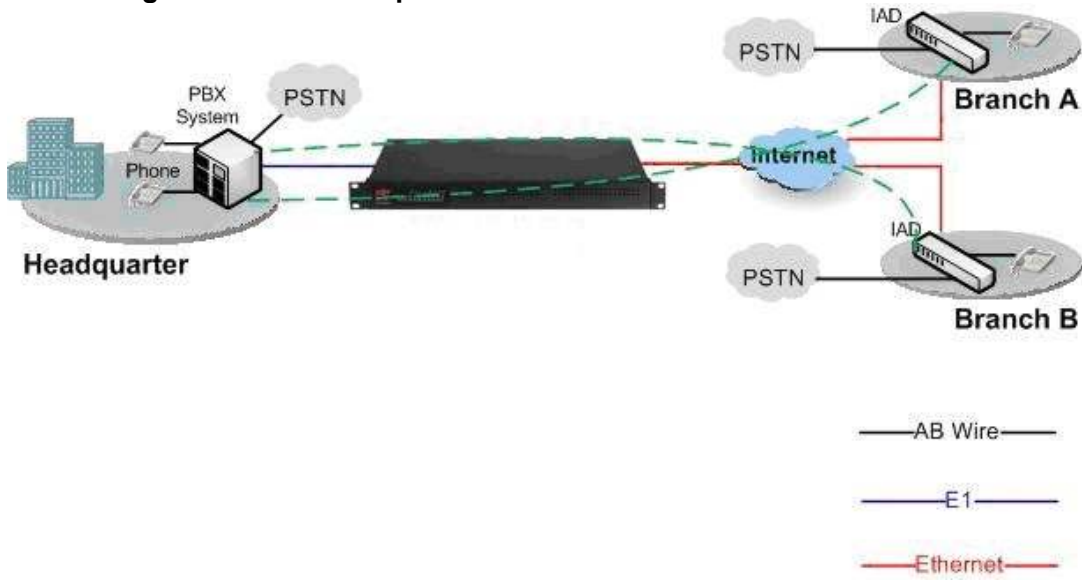
I. Basic VoIP Application (from E1 to SIP, or from TDM to VoIP)



II. IPCC (IP Call Center)



III. Building network for enterprise



IV. ITSP to PSTN (Internet Services Provider to PSTN)

