



MG3061 – Media Gateway

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MG3061 is a cost effective VoIP media Gateway designed to interface between the TDM and IP networks in enterprises. MG3061 is an intelligent, feature rich system which allows seamless connectivity between the IP and PSTN networks through FXS, FXO & E1/PRI ports. Its superior capabilities ensures better speech quality and faster processing. MG3061 provides local survivability in the event of external network failures.

MG3061 VoIP media gateway can be deployed to connect enterprise legacy PBX systems over an IP infrastructure. In addition, it can be deployed in hosted communications and centralized IP-PBX applications.

MG3061 is a modular system which provides a high grade scalability up to 120 ports in a single system.

Features

- Scalable up to 120 TDM ports
- Supports multiple type of TDM interfaces (FXS / FXO / PRI)
- Modular architecture for easy scalability
- Toll grade voice compression
- Echo cancellation, Jitter Buffer, VAD and CNG
- Complies with latest version (RFC3261) SIP protocols
- Enhanced capabilities which include MWI, metering tones
- Best suitable for SIP based hosted communications and centralized IP-PBX applications.
- Easy configuration and installation
- Supports all standards telephony features such as Call Hold, Call Transfer, Message Wait Lamp, Call Waiting, Do not disturb, Caller Id presentation

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Technical Specifications

Mechanical Characteristics

Length	:	335 +/- 0.5 mm
Width	:	480 +/- 0.5 mm
Height	:	93 +/- 0.5 mm
Weight	:	< 20 Kg

Electrical Characteristics

AC Power operation	:	220 VAC + 10 %, 50 Hz
DC Power operation	:	48 VDC (6-8 Hours, 48V,28AH)
Power consumption	:	0.7 W / Port (max) < 150 Watt (on full capacity)

Supported Interfaces and Capacity

FXS Interface	:	Max 120 Ports
FXO Interfaces	:	Max 40 Ports
PRI Interfaces	:	Max 120 Ports

Interface Characteristics

FXS Interface

Line Voltage	:	48 Volt
Dialling	:	DTMF (As per ITU-T Q.23) Decadic (10/20 PPS)
Caller Id	:	DTMF (As per ITU-T Q.23) FSK (BELLCORE 202)
Loop Resistance	:	1200 ohm
Open loop resistance	:	>10K
Ringing Voltage	:	75 V AC + 10 %, 20-25 Hz

FXO Interface

Termination impedance	:	600 Ohm
Open Loop resistance	:	>10K Ohm
CLI Detection	:	DTMF CLI (ITU-T Q.23)
Ring Voltage Detection	:	15 V RMS minimum

PRI Interface

ITU Standard	:	ITU G.703
Frame Structure	:	ITU-T G.704, G.732
Signalling	:	ISDN PRI CCS (Q.931)
Physical Interface	:	RJ45

VoIP Characteristics

SIP Standards	:	RFC 3261, RFC 3265, RFC 3515, RFC 3264, RFC 2782 & RFC 3428
SDP	:	RFC 2327
RTP / RTCP	:	RFC 3350
Jitter	:	Adaptive Jitter buffer
SIP DTMF Signalling:	:	RFC2833 SIP INFO DTMF - Inband audio tone

Codecs Supported

G.711A	:	128 Max
G.729	:	128 Max
G.726	:	128 Max

Management and Security Features

Management Port	:	Through ethernet interface 1 x RS232 Built-In Command line interface
Backup & Restore	:	Through USB port and TFTP
Access Security	:	User / password protected secured shell (SSH) access Multiple level login to MGW

Environmental Specifications

Operating Temperature	:	0 °C to 40 °C
Storage Temperature	:	-10 °C to + 70 °C
Relative Humidity	:	20% to 80% non-condensing



MGW3061 Rear View

This publication is not to be regarded as a complete system specification, or to be used as a contract document. We reserve the right to change the design or specifications without prior notice.