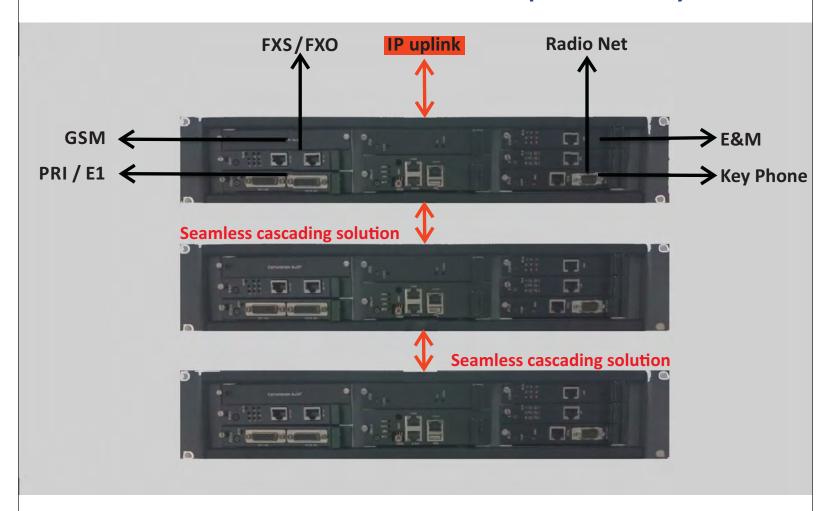


MG 3000 series - One box Tactical and Enterprise Gateway solution



MG 3000 series is an all-new concept providing a single box solution in the TDM world. This is a cost effective and scalable VoIP Media Gateway solution designed to interface between the TDM and IP world.

It is an intelligent, feature rich system which allows seamless connectivity between the IP and PSTN networks through almost all connectivity protocols in the TDM world. MG 3000 series provides local survivability in the event of external server & network failures.

In its tactical variant the MG 3000 series supports a host of tactical features. Compliant to the stringent environmental conditions and made to perfection as per global MIL standards, the MG 3000 tactical series supports redundancy in CPU and power supply level. It supports the Radio over IP functionality and Magneto and E&M connectivity over IP networks. Built to ensure 24x7 operations, the single box solution supports disaster server application in case the main server site gets completely destroyed.

MG 3000 series is a highly scalable and cascadable solution system, which provides rich features for both enterprise, and defence needs.

Single box solution for PRI/FXS/FXO/GSM/Radio net /E&M gateways application upto 512 ports

Available in Ruggedised mode as per MIL STD specifications

Key Telephones (KTS) connectivity along with FAX and analog telephones

Software defined ports for FXS / FXO / Magneto interfaces

IP telephone for inter-op between analog telephone and the radio nets

Disaster server support in case of destruction of the main server location

Local node survivability with fallback PSTN

Decentralized & cascading system architecture to provide high availability and scalability

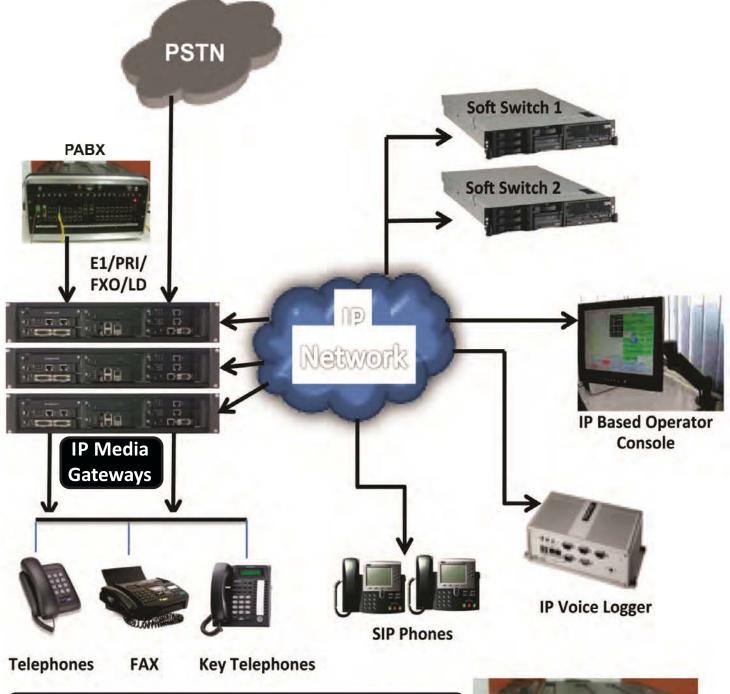
High availability with a decentralized architecture: Each media gateway has an optional redundant Ethernet connection which can be used to connect the device to two different Ethernet switches. When two switches are used, two independent paths to backbone are available. This configuration along with dis server support make it a highly reliable Tactical Gateway

State of art and rich in features: The 3000 series of media gateways are designed using embedded LINUX operating system. The gateways support both SIP and MGCP. It offers long list of unique features along with basic features like T.38 FAX over IP, analog modem over IP, caller ID detection over FXO, flexible numbering of ports and all intercom features

Reliability: The MG 3000 series of media gateway are designed to withstand harsh environment in the field. Each system is tested against severe weather conditions. In addition to this, the design architecture supports 1+1 power supply and central processor card for high survivability.

Easy operation and maintainability: The gateways provide user friendly Graphical User Interface (GUI, allowing users to program and configure the system. It also supports various standards of remote management like auto provisioning, TELNET, SNMP, TR069 etc.

Secured Investment: In the process of deciding state of the art VoIP media gateway; cost investment, flexibility of connectivity and future expandability are the main challenges. The 3000 series of media gateways are the best suited. It delivers high performance; range starting from 32 FXS ports to 512 ports, with minimum investment and at the same time is future ready for expansion with growing needs of business.



2U

Up to 120 ports

IP Media Gateways: MG 3000 Series

10

Up to 96 port

Applications:

Complete Enterprise segment

Defense segment with ruggedisation se campuses, hotels and hospitals

N gateway
le network integration of analog telephones switch over a wide area er applications

Unique Features:

- Single box solution for PRI/FXS/FXO/GSM/ Radio net /E&M gateway application
- Configuration from 32 to 512 FXS ports.
- Supports multiple PRI/E1 to IP
- Supports cascading of MGW boxes
- Police and Military applications for inter operability of various Radio nets
- Disaster server support
- Local node survivability with PSTN
- Voice, FAX, POS machines and analog modem support
- Caller ID detection on FXO and generation
- Multiple CODEC support
- IPv6 compliant
- Message waiting indication
- Supports auto sensing short haul and long haul up to 9 KM
- Individual protection against high voltage spikes and lightening strikes on each port

arious additional applications available to

neet customer - specific needs: In addition

voice communications, the gateways allows
ne integration of additional applications. A

ariety of IP-based applications such as video
urveillance, SIP phone integration, IP based
perator consoles, IP based Voice Logger and
ndio sets can be seamlessly integrated with
ne gateways.

3U Up to 512 port

VoIP Media Gateway - 3000 series

Technical Specications

System and Maintenance

- Modular concept, redundancy
- Configuration back up and restore
- Built-in protection on all cards
- SNMP V1/V2/V3
- Auto provisioning
- Tr069
- WEB/TELNET
- GUI based Local management
- Firmware upgrade using WEB

Subscriber Services

Auto Call Back Hotline
Call Forward DNS

Call Hold/Transfer Conferencing
Call Pick-up Soft Phones
ISDN services Fax over IP
Abbreviated Dilating Radio over IP
Direct outwards Dial
E. 164 numbering Call Statistics
Call Data Record Flexi Numbering

System Configurations

1U MG 3301 : max. 96 port

3 peripheral slots : max. 120 ports

6 peripheral slots 3U MG 3611 : max. 512 port

16 peripheral slots

Plug-in Cards

2U MG 3601

PSU : DC-DC Convertor, 48 VDC input CPU : Main processor with 1PRI, LAN,

WAN, RS232 E1/PRI: 1 X 2MB link

FXS : 16/32 ports per card with FSK FXO : 8 ports per card with DTMF/FSK

E&M: 8 ports per card, 2/4 Wire LD: 4 ports per card, MFC/Pulse

GSM: 4 ports per card

RIC: Radio interface, 2 port per card

Power Supply

AC operation : 140V-265 Vac DC operation : 48V DC

Power consumption : Appx.0.7W/port

1U: 50W nominal 2U: 100W nominal 3U: 250W nominal

Environmental Data

Operating Temp : $-10 \text{ to } +50^{\circ}\text{C}$ Storage Temperature : $-20 \text{ to } +65^{\circ}\text{C}$ Relative humidity : 0 - 90 %



IP Media Gateways: 3000 Series

VolP Interface and CODECs

SIP Protocol
FAX using T .38
Modem Using G.711
Up to 71 VoIP channels
G.711, G. 729a, G. G.726, T .38
Echo cancellation
Silence suppression/

Comfort noise generation

Protocols

GSM

E 1 CAS, E1 QSIG ISDN PRI SIP, MEGACO DTMF/Pulse FSK MFC modified

Radio over IP, PTT signalling

Dimensions (WxHxD) and weight

1U MG 3301 : 480x45x335mm

2U MG 3601 : 480x90x335mm : 12Kg max.

: 8Kg max.

3U MG 3611 : 480x135x345mm

: 20Kg max.

IP PABX
IP Logger
IP operator Console
Soft switch server
Key Telephone
WEB GUI

Options



IP PABX (2000 ports) Model : IP@CORE



IP based Operator Console, Touch screen



KT12/24 Key Telephone



IP Voice Logger

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

