

New Rock Technologies VoIP Gateways

MX100-TG SIP Trunking Gateway



The MX100-TG T1/E1 Internet telephony trunking gateway gives the large enterprise and the ITSP unprecedented value in a high-function gateway. The MX100-TG is designed to provide connectivity between PSTN and carrier VoIP networks or enterprise private VoIP SIP-based networks. The MX100 is interop proven with commonly deployed central office and SIP-based telephony servers.

High Performance

Voice-processing capability is the most important requirement and measurement for all trunking gateways. The MX100-TG configured with one to four T1/E1 interfaces can process 120 simultaneous VoIP and/or FoIP calls. The MX100-TG embeds powerful DSP technology with 4800 MIPS processing power, to support G.711, G.729A, G.723, G.168 echo cancellation, DTMF relay RFC2833, and T.38 fax relay.

Rich Features

The MX100-TG supports many features to empower various applications, including

- Flexible digit translation
- Up to 500 routing rules
- Voice announcement and 2nd-stage dialing
- Auto dialing
- DTMF detection and call-progress tone detection
- Early cut through
- Play ring-back tone
- T.38 fax relay
- RTP proxy for NAT traversal

Interoperability

The MX100-TG supports user-side ISDN PRI connections to class 4/5 switches offered by Nortel, Lucent, Alcatel, Siemens, Huawei, ZTE, and others. It also supports network-side ISDN PRI connections to ISDN PBXs.

The MX100-TG is standards-based and is capable to interoperate with SIP-based application servers, media servers and large variety of IADs.

Management

Like other New Rock VoIP products, the MX100-TG supports both Web and text-based configuration methods, and it also supports TR069 protocol for centralized remote management for configuration, firmware upgrade, log file download, statistics collection and event alarm.

- Flexible configuration of one to four T1/E1s
- Toll-quality voice
- PSTN termination for IP Phones, IP PBX and PBX access
- Digit translation, voice announcement, 2nd-stage dialing and RADIUS- billing interface
- Advanced technology including SIP protocol, frequency domain echo cancellation, iLBC codec and TR069 remote management

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Specifications

Functions	
Configuration	1E1(30 Channels), 2E1(60 Channels), 4E1(120 Channels) 1T1 (24 Channels), 2T1 (48 Channels), 4T1 (96 Channels)
Voice Processing	G.711, G.729A, G.723.1, GSM, iLBC Echo Cancellation:G.168,Tail Length:16/32/64/128 ms Dynamic Jitter Buffering VAD and CNG
Call Control	Called/Calling Party Number Translation Second-Stage Dialing Voice Detection Auto Dialing with DTMF Ringback Tone Generation and Detection Voice Announcement 500 Routing Rules
Voice Proxy	RTP Voice Proxy Function for NAT/Firewall Traversal
Fax Relay	G.711 pass-through and T.38 Fax Relay
Billing	RADIUS Interface
Configuration Interface	Web Utility, HTTP Option 66
Remote management	Telnet, HTTP, TR069
Signaling	
PSTN	ISDN PRI Standard: ANSI, NI-2, DMS, 5ESS
SIP	RFC3261, RFC2976, RFC3515, RFC3581
DTMF	Tone Detection, Generation, and Detection DTMF Relay: RFC2833, INFO (SIP)
STUN	RFC 3489
RADIUS	RFC 2866 Accounting
Hardware	
Ethernet	RJ-45, 10/100 Base-T
Trunking Interface	RJ-45
System Memory	128MB
System Flash	16MB
Processor	Motorola PowerPC 8250
DSP	TI C5509
Power Supply	110 240 VAC, 50 60 Hz, 1A (Max) -48 VDC, 1A (Max)
Power Consumption	70 W (Max)
Size (H x W x D)	4.4 x 44 x 44 cm 1U form factor
Net Weight	7 kg
Packing Weight	9 kg
Environment Requirements	
Storage Environmental	0 to 40°C, Non-Condensing Humidity 10% to 95%
Operating Environmental	-10 to 60°C
Other Specifications	
Compliance	FCC Part 15

Product series

- MX VoIP Gateway Series
- OM IP-PBX
- OX Hybrid Office Telephone System
- SX1000 Session Border Controller
- TR069 Management System