

New Rock Technologies VoIP Gateways

MX100-TG

VoIP Trunking Gateway



MX100-TG trunking gateway is one of the products in New Rock Technologies VoIP product series. MX100-TG performs IP to PSTN interconnection function by packetizing and depacketizing voice calls between IP and PSTN. It is widely used for PSTN termination for VoIP calls, or providing PBX access to IP networks.

MX100-TG is specifically designed for service providers and large enterprises to offer VoIP services. With 1U form factor, a MX100-TG is equipped with a main control module, two line module slots (for one or two 4-port T1/E1 modules), and two power supply slots (for one or two AC or DC power supplies).

High Performance

Voice processing capability is the most important requirement and measurement for all trunking gateways. MX100-TG configured with one to four T1/E1 interfaces can maximally process 120 simultaneous VoIP calls. MX100-TG embeds powerful DSP technology which possesses 4800 MIPS processing power, for full load voice processing to support CODEC (G.711, G.729A, G.723), echo cancellation (G.168), DTMF relay (RFC2833), and fax relay (T.30, T.38) etc.

Rich Features

MX100-TG supports all kinds of features to satisfy various application requirements. Features include: Calling/Called Party Number Translation, Routing Selection, RADIUS Billing Interface, Second Stage Dialing and Ring-back Tone, DTMF Auto Dial, Tone Detection, RTP voice Proxy (for NAT Traversal), T.38 Fax Relay. MX100-TG supports ISDN PRI and SIP protocols and it is the ideal PSTN termination trunking gateway for IP phones, PC phones and PBX bridge to VoIP services.

Simple to Operate and Maintain

Like other New Rock Technologies VoIP products, MX100-TG has the Web GUI and text configuration interfaces. In addition, a user can remotely upgrade, maintain, download log files and collect statistics from an installed MX100-TG by using New Rock's EMS system.

Investment Protection

Compared to other VoIP products on the market, MX100-TG embeds newest VoIP technology and standards, and is an open platform to support many new telecommunication applications to come.

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- Flexible configuration of one to four T1/E1
- Toll voice quality
- Guarantee 120 DS0 voice processing with any CODEC
- Ideal PSTN termination for IP Phones, IP PBX and PBX access.
- Embedded with RTP voice proxy, digit translation, auto dial and RADIUS billing interface
- Advanced technology including SIP protocol, frequency domain echo cancellation and iLBC CODEC

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Specifications

Functions

| | |
|-------------------------|---|
| Configuration | 1E1 (30 Channels), 2E1 (60 Channels), 4E1 (120 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 |
| Voice Proxy | RTP Voice Proxy Function (for NAT/Firewall Traversal) |
| Fax Relay | T.30 Transparent Mode, T.38 Fax Relay |
| Billing | RADIUS Interface |
| Configuration Interface | User Web Interface, Text Interface |
| EMS Interface | HTTP/Web Interface, used with New Rock's EMS System for remote configuration and software upgrade, alarm and statistics reporting |

Signaling

| | |
|------|--|
| PSTN | ISDN PRI Standard: ANSI NI-2 DMS 5ESS |
| IP | SIP RFC3261 |
| DTMF | DTMF Tone Detection DTMF Relay: RFC2833, INFO (SIP) |

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 to 240 VAC, 50 to 60 Hz, 1 Amp (Max) -48 VDC, 1 Amp (Max) |
| Power Consumption | 70 W (Max) |
| Size (H x W x D) | 4.4 x 44 x 44 cm 1U formfactor |
| Net Weight | 7 kg |
| Packing Weight | 9 kg |

Environmental 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 |
|------------|-------------|

Other Products

- MX8 Gateway: 4/8 FXS/FXO Port
- MX50 Gateway: 16/24 FXS/FXO Port
- MX100-AG Gateway: 24/48 FXS Port
- SIP Service Platform
- Billing System
- Element Management System

About New Rock Technologies

Newrock Technologies, Inc. is an innovative provider of IP-based voice communications equipments. Our customers range from service providers, enterprises, system integrators, to independent software vendors. We also have OEM partners worldwide. Headquartered in the Greater Boston area in the United States. We have expanded our Research and Development, marketing and sales, and manufacturing operations to Shanghai, China. We are fully founded by IDG Technology Venture Investment, Inc and other investors. New Rock Technologies offers a full line of VoIP products from voice access gateway, to digital trunking gateway, gateway management system, billing system, and application software platform.

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