MX60 VoIP Access Gateway

MX60 VoIP Gateway is a member of MX series developed by New Rock Technologies, Inc., which is designed for multi-purposes applications. Supporting SIP and MGCP for call signaling and TR069 for management as well, MX60 enables vast deployment in delivering carrier-hosted converged services as well as enterprise-based voice applications. A MX60 gateway is typically used to connect analog telephone terminals, PBXs or key systems to the IP network through FXO or FXS ports, and is ideal components in many VoIP-based solutions.

Model	FXS	FXO	PSTN failover
MX60-16S	16	0	N/A
MX60-32S	32	0	N/A
MX60-48S	48	0	N/A
MX60-8S/8	8	8	Yes
MX60-24S/8	24	8	Yes
MX60-40S/8	40	8	Yes
MX60-16S/16	16	16	Yes
MX60-32S/16	32	16	Yes
MX60-24S/24	24	24	Yes

Product Features

- Support 3GPP IMS
- Support TR069/TR104/TR106 for remote management
- Flexible configuration of FXS/FXO ports
- PSTN failover on power failure or network interruption
- 500 routing rule capacity
- IP filter, encryption for security
- Support Fax (T.30/T.38), POS machine and modem
- Busy tone detection and polarity reversal of FXO ports
- Compatible with unified communication solutions, such as CallManager, OCS, and Asterisk

Intelligent and Rich in Features

In a highly compact 1U chassis, MX60 adopts embedded Linux operating system and offers rich features, such as call transfer, call pick-up, built-in 3-way conference, caller ID, CRBT, T.38 Fax relay, flexible call routing with 500 rule capacity, number translation, PSTN failover on power failure or network interruption, and etc. MX60 is powered by high speed CPU and dedicated DSP chip sets, which allow MX60 to be used in highest call traffic applications.

Easy to Operate and Maintain

MX60 provides Web-based management GUI, allowing user to configure parameters, upgrade firmware, import and export configuration data, monitor status, and etc. MX60 also supports remote management standards, such as Auto-provisioning, Telnet, TFTP, SNMPv2, TR069, TR104 and TR106.

High Interoperability

MX60 has performed the interoperability tests with many softswitch and IPPBX from worldwide vendors, including IP-PBX from Microsoft (OCS), Cisco (CallManager), Nortel (CS1000), and softswitch from Huawei, ZTE, Ericson, and etc.

Free Upgrade

When choosing next generation communication equipment for IP network, cost reduction and investment protection are the main challenges. MX60 offers best performance of cost reduction. Through software upgrade, latest VoIP functions and standard can be continuously delivered to customers and prolong cycle time of the equipment.

MX60

System Specification

Functions	
Voice processing	Voice codec: G.711，G.729A，G.723.1，GSM，iLBC Echo cancellation: G.168 with 64ms echo tail Dynamic jitter buffer, voice activity detector (VAD) QoS: IP TOS， IEEE 802.1p tag

Call features	
Calling type	Voice/Fax/Data
IVR voice prompt	FXO port 2-stage dialing
Encryption	RC4 and other encryption scheme for signaling and/or voice
Call handling	Configurable dialing plan, up to 500 routing rules
Fax processing	T.30, T.38 fax relay
DTMF	RFC 2833, SIP INFO, audio
Billing	RADIUS, polarity reverse
User features	Caller ID, call forwarding, call transfer, call forking, hotline, CRBT, do not disturb, speed dialing, busy tone detection

Network	
Security	IP filter, port number changing
NAT traversal	Static, dynamic, STUN
Protocol	PPPoE、DHCP、DNS

Configuration/Management	
Web GUI	Configuration, firmware upgrade, status monitoring, log downloading
EMS	TR069/TR104/TR106、SNMPv2、Telnet、TFTP、HTTP

Protocol and standard	
Protocol	SIP (RFC3261 and etc.), MGCP (RFC3435), 3GPP TS 24.228, TS 24.229
Standard	Caller ID detection(FSK/DTMF), configurable call progress tone plan

Hardware	
CPU	ATMEL AT91SAM9G20
Digital signal processing	TI TMS320VC5509A
System memory	64MB Flash memory: 8MB
LED	Status for power, system, network and lines
Ethernet connector	RJ-45, 10/100 Base-T, automatic crossover
FXS/FXO connector	RJ-45 (4line pairs following T568B scheme)
Max. user line length	1500 meters Ring equivalent value: 5 (short distance)
Power input	100～240 AC, 50/60 HZ, 1A (Max)
Power consumption	75W (Max)
Dimension (H x W x D)	44 x 440 x 260 mm
Weight	Net: 3Kg Gross (include package): 4Kg

Environment requirement	
Operating	Temperature: 0～40ºC. Humidity: 10%～90% (non condensing)
Non operating	Temperature: -10～60ºC. Humidity: 5%～90% (non condensing)

Product Series

- MX VoIP Gateway Series
- MX100-TG Trunking Gateway
- OM IP-PBX
- OX Hybrid Office Telephone System
- Element Management System

New Rock Technologies, Inc. is a China based innovation company, focusing on the developing and manufacturing of VoIP equipments. We offer wide range of VoIP products including all-in-one IP-PBX, hybrid IP-PBX, media gateway, session boarder controller, and related application software. We work with service providers, enterprises, system integrators, resellers, independent software vendors, as well as OEM partners.

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* The value is measured under standard hardware configuration, may vary under different hardware configurations