

MX60 Access Gateway



Product Features

- Supports 3GPP IMS
- Supports TR069/TR104/TR106 for remote management
- Support Option 66 for configuration
- 12 configurations of FXS/FXO ports
- PSTN failover on power failure or network interruption
- 500 routing rule capacity
- IP filter, encryption for security
- Supports fax (G.711/T.38), POS machine, and modem
- Busy-tone detection and polarity reversal of FXO ports
- Compatible with unified communication solutions, such as CallManager, OCS/Lync, and Asterisk

The MX60 Access Gateway offers a maximum capacity of 48 FXS and/or FXO lines, making it suitable for medium-enterprise service-provider deployments. The MX60 gateway is typically used to connect analog telephone terminals, PBXs or key systems and fax terminals to the IP network through FXS ports, and to interconnect IP networks to the PSTN through FXO ports. As shown in the chart below, these interfaces are available in 12 different combinations.

Model	FXS	FXO	PSTN failover
MX60-16S	16	0	N/A
MX60-32S	32	0	N/A
MX60-48S	48	0	N/A
MX60-16FXO	0	16	N/A
MX60-32FXO	0	32	N/A
MX60-48FXO	0	48	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

Rich Features

In a compact 1U chassis, the embedded-Linux MX60 offers rich PBX-like features, such as call transfer, call pick-up, built-in 3-way conferencing, caller ID, CRBT, T.38 fax relay, flexible call routing with 500-rule capacity, number translation, and PSTN failover on power failure or network interruption. The MX60 is powered by a high-speed CPU and dedicated DSPs, which support high-traffic applications.

Easy-to-Operate and Maintain

The MX60 provides a Web-based management GUI, allowing the user to configure parameters, upgrade firmware, import and export configuration data, and monitor status. The MX60 also supports remote-management standards, such as HTTP Option 66, auto-provisioning, Telnet, TFTP, SNMPv2, TR069, TR104, and TR106.

High Interoperability

MX60 has performed interoperability tests with many softswitch and IP PBXs from vendors such as Microsoft (OCS/Lync), Cisco (CallManager), Nortel (CS1000), and softswitch from Huawei, ZTE, Ericson, and others.

Upgrades and Support

When choosing next generation communication equipment for IP networks, cost reduction and investment protection are requirements. The MX60 offers low cost through unbeatable value and maintainability. Through remote software upgrades, the MX60 will always deliver support for the latest features and standards. Support in the Western Hemisphere is provided by NetGen Communications; New Rock Technologies provides support in Asia.

New Rock Technologies VoIP Gateways

MX60

System Specifications

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
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Call features

Calling type	Voice/Fax/Data
IVR voice prompt	FXO port 2-stage dialing
Encryption	RC4 and other encryption schemes for signaling and/or voice
Call handling	Configurable dialing plan, up to 500 routing rules
Fax processing	G.711 pass-through, 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, Option 66

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: 0~40°C. Humidity: 10%~90% (non condensing)
Non operating	Temperature: -10~60°C. 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

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