



MX60E-G-SC

Ports 16S, 32S, 48S, 8S/8, 24S/8, 16S/16, 16FXO, 32FXO

## Product advantages

- More competitive price in the office phone application market
- Compatible with major operators IMS platform
- Compatible with open source IP-PBX, Huawei, New Rock, and other brands
- Support centralized operation and maintenance as well as remote cloud management
- Support call recording
- Support T.38 V3 high-speed fax
- Simple and intuitive user configuration interface
- Support dual power redundancy

## Product Performance

- Maximum number of voice interfaces (FXS or FXO ports):48
- Maximum number of SIP/IMS registered accounts:48
- Max concurrent calls for G.711 :32
- Max concurrent calls for G.729A:16

The MX60E-G-SC is a VoIP gateway built specifically for the enterprise office telephony application market. As part of an enterprise unified communications solution, the MX60E-G-SC uses standard SIP and IMS protocols to connect directly to an operator's IMS unified communications platform or an enterprise IP-PBX over the network.

It helps enterprises realize the transition from an analog to an IP system by providing 16S, 32S, 48S, 8S/8, 24S/8, 16S/16, 16FXO, and 32FXO interfaces to connect to analog phones, fax machines, and PSTN analog outside lines. The MX60E-G-SC inherits the MX60E-G's flexible configuration and reliability, but is more cost-effective, further helping enterprises transition from office telephony to voice over IP.

## Comprehensive Feature Set

As an intelligent gateway running on an embedded Linux operating system, the MX60E-G-SC supports an advanced feature set such as call forward, call transfer, 3-way calling, caller ID, DND, color ringback tones, call forking, automatic routing, digit map, and much more, providing a complete and highly reliable VoIP solution.

## Robust Protection against Intrusions

MX60E-G-SC provides a rich set of features to support perimeter protection against malicious intrusions, such as brute force logins and SIP attacks, ensuring a high level of security in your IP telephony environment.

## Remote Management and NAT Traversal

The MX60E-G-SC includes the New Rock Cloud client, providing easy access with NAT traversal to endpoint devices and value-added applications for remote, real-time monitoring, maintenance, software upgrades, troubleshooting, data analysis, alarm notification, remote and packet capture.

## Investment Protection

Investment protection is a significant part of New Rock VoIP product development focus, providing better returns for the customers who invest in VoIP products by maintaining compatibility with newest VoIP technologies via software upgrading, avoiding repeated investments.

MX60E-G-SC	FXS	FXO
MX60E-G-SC-8S/8	8	8
MX60E-G-SC-16S	16	0
MX60E-G-SC-16S/16	16	16
MX60E-G-SC-16FXO	0	16
MX60E-G-SC-24S/8	24	8
MX60E-G-SC-32S	32	0
MX60E-G-SC-32FXO	0	32
MX60E-G-SC-48S	48	0

## Specification

### Protocols

<b>Call control</b>	SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP), MGCP (RFC3435)
<b>Network</b>	SSH, HTTP, HTTPS, DHCP/PPPoE client, Radius, DNS (A/SRV record), STUN

### Media Processing

<b>Caller ID</b>	Bellcore/Telcordia, ETSI, BT, DTMF
<b>Codec</b>	G.722.2(VoLTE)、G.711、G.729A
<b>DTMF</b>	In-band audio, RFC2833, SIP-INFO
<b>Hook-flash</b>	Local processing, RFC2833, SIP-INFO
<b>Fax over IP</b>	T.38, G.711 pass-through T.38 compliant Group 3 Fax Relay Maximum fax rate of 33,600 bps (pass-through)
<b>Disconnect modes</b>	Polarity reversal, Busy tone detection, Loop current
<b>QoS</b>	DiffServ, TOS, 802.1P/Q VLAN tagging
<b>Voice-quality enhancement</b>	Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC

### Voice

<b>Call transfer</b>	Blind transfer, Consultative transfer
<b>Call forward</b>	Call forward all, Call forward no answer, Call forward busy
<b>Call recording storage</b>	Remote recording server for storage
<b>Call settings</b>	Routing based on the caller or callee number, Digit map, 3-way calling, Speed dialing, Do not disturb, Call forking, Color ringback tones, Hunt group, Ring cadence, Message Waiting Indicator (MWI)

### Security

<b>Protocol</b>	HTTPS, SSH, TLS, SRTP
<b>Encryption</b>	SIP signaling encryption, profile encryption import/export, password/PIN code encryption
<b>Intrusion prevention</b>	Brute force login protection, Access list, Firewall, SIP-allowed IP addresses, Alarm and notification*
<b>VLAN</b>	Auto discovery via DHCP, Manual configuration
<b>VPN client*</b>	L2TP, OpenVPN

### High Availability

<b>Redundancy</b>	Primary-Standby, Active-Standby, Load balancing
<b>PSTN failover</b>	Power failure, Network failure

### Provisioning, Administration and Maintenance

<b>Device management</b>	New Rock RMS, TR-069 management (TR-069, TR-104 and TR-106), SNMP
<b>Remote access over TCP</b>	New Rock Cloud (US: YoubiquiTy)
<b>Auto provisioning</b>	Download configuration file via TFTP/FTP/HTTP/HTTPS, Obtaining ACS address via DHCP option

66 or redirection

<b>Log management</b>	8-level logs, Syslog
<b>Data capture</b>	Port capture, Packet capture
<b>Status and statistic</b>	Call status and history, Device status monitoring and statistics collection
<b>Upgrade</b>	Firmware upgrade via Web GUI or Auto provisioning

\* Roadmap feature

## Included Software

### Software

<b>Finder</b>	Obtains IP addresses of devices in a LAN environment
<b>Telegreeting</b>	Formats pre-prepared IVR audio files for uploads them into a device
<b>Recording Agent</b>	Receives recording streams in PCM and converts them into MP3 format. Includes management functions such as search, play, delete and backup

## Hardware

CPU	1GHz
RAM	128 MB, DDR3
Flash	32 MB
H×W×D (1U)	44 × 440 × 260 mm
Weight (net)	3 kg maximum
Network Interface	2×10/100/1000Mbps adaptive network ports* support redundancy protection
Single/Dual AC power supplies	100 to 240V AC, 50/60 Hz, 1.2 A maximum
Single/Dual DC power supplies	-36 to -72V DC, 2.5 A
Power consumption	60 W
Mounting	Rack
Operating	Temperature: 0 to 40°C Humidity: 10 to 90% RH (non-condensing)
Storage	Temperature: -40 to 70°C Humidity: 5 to 90% RH (non-condensing)