

## MX8 Multi-Purpose

## VoIP FXS/FXO ATA



- Ideal for IP-PBX and residential VoIP application
- High voice quality
- Highly compact yet truly reliable
- User-friendly provision tools
- Featuring busy tone auto detection, DTMF detection, fashion ringing tones, hook-flash relay and etc
- Advanced VoIP technologies including SIP, iLBC, and voice encryption
- Compatible with dozens of SIP platform

MX8 is perfect for the telecom carriers to provide the residential telephony and fax services through broadband networks. MX8 can also be used as ATA for IP-PBX to provide voice solutions for enterprises.

MX8 provides rich capacity configurations: 4 FXS ports, 8 FXS ports, 4 FXO ports, 8 FXO ports and 4FXS+FXO ports. It shares the same software system with other New Rock's carrier class VoIP gateway products. MX8 offers rich user features, high quality voice, high compatibilities, and many other benefits. Equipped with MPC852 from Motorola as its control processor and high performance DSP C5509 from Texas Instruments for voice and fax processing, MX has powerful computation capability for IP packetization, voice compression and echo cancellation even when the voice traffic is at the peak.

### Intelligent and rich in features

MX8 works on the embedded Linux operating system. With its powerful hardware platform and flexible software design, it can meet various voice application requirements. MX8 supports a variety of supplementary services including Caller ID, Call Forwarding, Call Waiting, and Fashion Ring-back, Intelligent Routing, RADIUS Billing Interface, Two Stage Dialing, Calling/Called Number Mapping, Auto Dialing, and etc.

### Easy to operate and maintain

MX8 supports both web-based and text-based configuration setup. Users can remotely upgrade the MX8 software, change the configuration parameters, download log files, and collect gateway performance data by using the New Rock's Element Management System (EMS).

### High Interoperability

MX8 has passed the interoperability tests with many soft switch and gateway suppliers worldwide.

### Investment Protection

Protecting your investment is one of the challenges when purchasing IP-based voice equipments. MX8 not only offers the cost-effectiveness but also supports the latest VoIP technologies and standards. Users can take advantage of the newest VoIP technologies by upgrading MX8 software.

# New Rock Technologies VoIP Gateways

## MX8

### System Specification

Key features	
Configuration	4 or 8 FXS analog ports; 4 FXO analog ports, mixed 4FXS/FXO analog ports
Voice Processing	Voice Codec: G.711, G.729A, G.723.1, GSM, iLBC Echo Cancellation: G.168; Tail Length: 8/16/32 milliseconds Dynamic Jitter buffer; Voice Activity Detector (VAD); and Comfort Noise Generator (CNG)
Calling Control	Called/calling number Mapping; Line Hunting
Fax Processing	T.30, T.38 Fax Relay
Billing	RADIUS Interface; Polarity Reverse
Gateway Configuration	Web Based User Interface; Text Based Configuration
Remote Provisioning	HTTP/WEB More; Remote Configuration using New Rock EMS; Remote Software Upgrade, Alarm, Performance Data
Signaling	
Off Hook Detection	FXS Loop State, DDI (Hong Kong)
VoIP Protocol	SIP (RFC3261), MGCP (RFC2705)
DTMF	DTMF Digits Transmit: RFC2833, INFO (SIP)
Other Special Feature	
FXO bypass Line	A bypass FXO line is selected during a network failure or power outage
Auto Busy Tone Detection	On FXO ports to detect busy tone from POTS line
Dual Telephone Number	Each line can be configured with one PSTN number and one extension number
Primary and Backup Switches	The gateway can be configured and controlled by multiple softswitch
Color Ring-backTones	The ATA can download and store up to twenty fashion ring-back tones
Hardware	
Max. User Line Length	3000 Meters
Ringer Equivalence number	5 for short loop (300 meters), 3 for long loop (1500 meters)
Ringing Voltage	60V RMS
FXO/FXS Connector	RJ-11
Ethernet Connector	RJ-45, 10/100 base-T, 10/100 Auto Sensing
System memory	32 MB
Flash Memory	8 MB
Central Processor	Motorola PowerPC 852
Digital Signal Processor	TI C5509
Input Voltage	5V/3A DC (A AC/DC convector is provided)
Power Consumption	15 Watt (Max)
Dimension (H x W x D)	15 x 118 x 24 mm
Weight	0.65 kg
Environment Requirement	
Operation Humidity	10% to 90%, non-condensing
Operation Temperature	0 degree to 45 degree Celsius
Non Operation Temperature	110 degree to 60 degree Celsius
Other Rules and Regulations	
FCC Part 15	

### 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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