

## MX8 Multi-Purpose VoIP Gateway Series

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### Overview

**M**X8 is a multi-purpose VoIP gateway product series. It is designed for traditional carriers, Competitive Local Exchange Carriers (CLEC), Internet Telephony Service Providers (ITSP), and enterprises with its rich features and good price performance nature. With MX8 gateways, service providers can provide telephony and fax services to subscribers using many type of access method like FTTB, HFC and ADSL. Through MX8's traditional PBX interface, enterprises, government branches, schools can implement voice VPN solutions with their private IP or public VPN networks. MX8 also serve as a remote SIP terminal for IP-PBX solutions.

MX8 comes with 10 application models, each model is equipped with different analog lines (FXS) and trunks (FXO), satisfying most types of VoIP application requirements. MX8 key technology is derived from mature carrier class MX100 voice gateway series (MX100-AG, MX100-TG), therefore it maintains the rich features, high voice quality, highly interoperable nature and many other product advantages. In the MX8 hardware, it embeds Motorola 50Mhz 32-bit central processor MPC852, uses TI high performance C5509 DSP for voice processing. Highly capable hardware platform guarantees MX8's full load performance for IP packetization, voice compression (G.711, G.792a, G.723.1), echo cancellation (G.168), etc.

### MX8 series application models:

models	configuration
MX8-2S	2 FXS ports
MX8-2	2 FXO ports
MX8-2S/1	2 FXS ports, 1 FXO port
MX8-2S/2	2 FXS ports, 2 FXO ports
MX8-4S	4 FXS ports
MX8-4	4 FXO ports
MX8-4S/1	4 FXS ports, 1 FXO port
MX8-4S/2	4 FXS ports 2 FXO ports
MX8-4S/4	4 FXS ports, 4 FXO ports
MX8-8S	8 FXS ports

### MX8 Series Key Functions:

- MGCP or SIP access gateways;
- SIP-PSTN analog gateway;
- Routing (based on called number or other criteria);
- Radius based CDR for accounting;
- STUN client for NAT transversal;
- Flexible interface for analog phones, fax, traditional PBX with analog trunks.

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### Main Applications

- Remote SIP access gateway for IP-PBX;
- IP based wide area PBX for enterprise, government branches and schools;
- VoIP Long Distance application for IP phone supermarkets and enterprises;
- Carrier primary and secondary line service;
- Small and home offices

In conjunction with softswitch or IP-PBX servers , MX8 can provide the following features :

- Caller ID
- Message waiting indication
- Call waiting
- Call forwarding
- Caller id on call waiting
- Call transfer (on busy, no answer, all)
- Special purpose calling codes
- Speed dial
- Redials

### Fax and Modem service

MX8 series supports fax tone detection and codec bypass (T.30) , and fax relay (T.38) function.

### Supported Protocols

- Session Initiated Protocol (SIP)
- Media Gateway Control Protocol (MGCP)
- Real Time Transport Protocol ( RTP )
- TFTP for remote software upgrade
- HTTP for system and interface configuration and monitoring
- SNMP v.1, v.2, v.3
- Telnet for remote support
- DHCP for dynamic IP address allocation
- DTMF
- STUN Client for NAT/firewall traverse

### Codec :

G.711, G.723.1, G.729A ; G.168 echo cancellation ;

DTMF transportation : transparent mode, RFC 2833 mode, SIP/INFO mode ;

Fax : transparent mode (T.30), fax relay mode (T.38) .



## MX8 Multi-Purpose VoIP Gateway Series

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### Other specifications:

Power	5V/3A DC power supply (included with AC adaptors)
Power Dissipation	15 Watts ( max )
Talk Battery	-24 V
Ringing Voltage	50V RMS
Loop Current	21 mA
Max Line Length	1500m or 415 ohm
REN Equivalence	5 for short loop (1000 feet) , 3 for long loop (5000 feet)
Analog Interface	RJ-11
Off-hook Detection	Loop start
Dialing	DTMF
Memory	32MB
Flash	8MB

### Physical:

Size ( L x W x H )	195 x 118 x 34 mm
Weight	650 gram