

SIP Gateway with features to meet all your deployment needs



Overview

The MX25 is a modular SIP gateway that provides flexible options for interconnecting telephony products to your VoIP network. It accommodates SIP transport for 30 simultaneous voice channels from any combination of telephony circuits. Available modular interfaces are T1 CAS, PRI, E1, FXO, FXS, and ISDN BRI. The MX25 can be used as a SIP gateway, or as a remote survivability module for the MX250. The MX25 is also designed to support small remote offices with PSTN connectivity as a means of primary trunking or as a survivability scheme. This provides clients with the ability to avoid long distance toll charges and extend service to analog telephone users.

Data Networking

The MX25 provides a single 10/100Base-T circuit that connects to an external Ethernet switch. The Ethernet port can be configured to support IEEE 802.1q VLANs and IEEE 802.1p quality of service at the Ethernet layer. For quality of service at the IP layer, Differentiated Services is supported.

System Capacities

The analog FXS and FXO are octal modules and the BRA is a quad module, supporting 4 (2B+D) circuits. The T1/E1 module provides two physical circuits, however, only one circuit can be used in an MX25 (both circuits can be used when the module is purchased for an MX250). Any combination of modules can be used, but only a maximum of 30 concurrent voice channels to the PSTN is supported. The MX25 can learn the information of up to 25 users from an MX250. It can accommodate up to 100 simultaneous SIP registrations.

Scale Seamlessly as Your Company's Needs Grow

The MX25 uses custom hardware that incorporates all of the processing power and resources required to scale from 1 to 25 users. It is 100% based on open standards, utilizing a real time Linux operating system and SIP for call control. This ensures interoperability, security, and high quality voice. The modular design allows for flexibility of configuration and provides room for future growth.

Key Features

Mode for standalone SIP gateway

Rack or tabletop mounting

Three module slots provide the connection of up to one T1 or E1 circuit, 24 analog circuits, 12 ISDN BRI circuits, or any combination

Connects up to 24 analog phones, fax machines and other analog station devices

Standards-based integrated QoS support

SIP protocol allows the connection of industry standard SIP phones or other SIP-based servers and applications

Supports G.711 and G.729 codecs

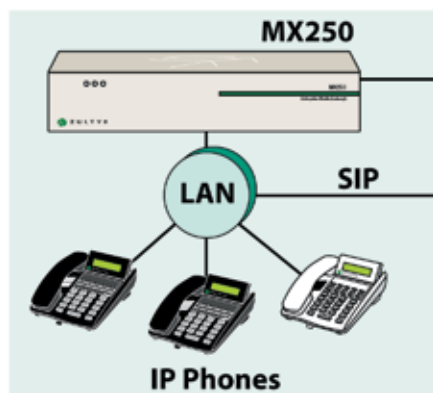
Interoperates with any standards-based network infrastructure

Based on a highly stable embedded Linux operating system

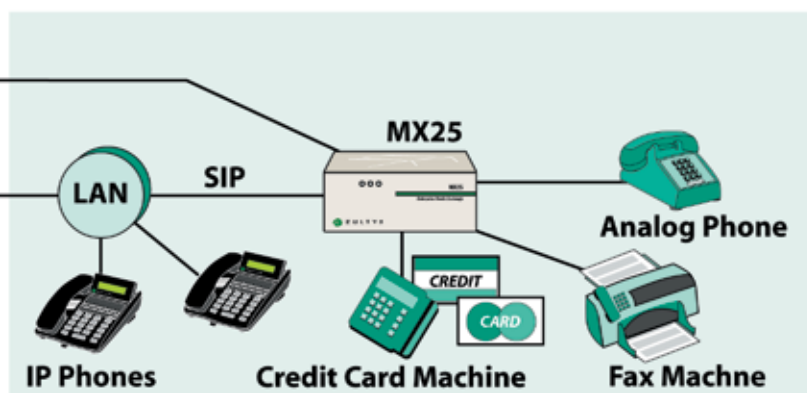


Connecting Branch Offices and Remote Sites to Your Unified Communications System for Service and Survivability

Main Office



Branch Office



Example of Branch Office Deployment using MX25 to extend the corporate network from the core MX250 IP PBX

Normal Operation

During normal operation, the IP phones located at a branch office register with the call server (e.g. MX250) at the main site. The phones consider the call server at the main site to be their primary SIP server. The MX25 sends a registration to the call server for each analog phone, fax machine or credit card reader configured on an analog FXS module. This is how the call server knows how to route an incoming call on one of its interfaces to an analog extension on the MX25.

When there is an incoming call from the PSTN on the MX25, the call signaling is redirected over the IP network to the call server. The call server decides where to route the call. When an outgoing call is made using any IP phone, the call setup is performed by the call server. The dial plan on the call server can be configured by the administrator to enable least cost routing. The MX25 supports a dial plan that is configured by the administrator to provide intelligent call routing to any of its configured PSTN interface groups.

Operation When WAN Fails

An IP phone can be configured to use the MX25 as a backup SIP proxy. When the WAN link fails and the IP phones can no longer communicate with the call server, they can automatically attempt to make calls through the MX25 (backup SIP server). Because of this, outgoing calls from the IP phones are routed locally to the PSTN through the MX25. The administrator can configure the MX25 to route all incoming calls from the PSTN to specific analog devices and to registered IP phones. When the WAN connection is restored, communication with the call server resumes and normal operation is automatically restored. No intervention is required by the administrator.

SIP Gateway

The MX25 can provide the functionality of a modular SIP gateway, which is beneficial for a host of applications for the enterprise. Its dial plan allows for routing among multiple SIP servers (internal or external) as well as telephony circuits, which makes it functional within almost every VoIP application.

Simple System Administration

The MX25 is administered using a single graphical user interface that runs under Windows 7, Vista, Windows 2000 or Windows XP. This interface provides the administrator with a powerful tool that allows for configuration, maintenance and troubleshooting.

MX25 PHYSICAL AND ENVIRONMENTAL

Operating temperature: 10°C to 40°C (50°F to 104°F)
 Storage temperature: 0°C to 50°C (32°F to 122°F)
 Weight: 2.27 kg (5 lb)
 Size: 270 mm (W) x 210 mm (D) x 85 mm (H) (11" x 8" x 3") Mount:
 Mount single or double units side-by-side in 2 RU (89mm) space; standard 19" rack
 Safety: EN 60950, CSA-C22.2, UL 60950
 EMI: FCC Part 15, ICES-003 class A, CISPR 22, AS/NZS 3548 Class A
 EMC: CISPR 24 (EN55024), EN61000-4
 Telecom: (Australia) AS/ACIF S031, AS/ACIF S038, AS/ACIF S002; (Europe) ETS 300 011, ETS 300 012, ETS 300 125, ETS 300 102; (US/Canada) TIA/EIA-IS 968, CS 03; (Japan) JATE AC04-0001003
 Warranty: one year

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