New Rock Technologies VoIP Gateways

MX120

VoIP

Enterprise Voice Gateway



- Applications: IP-centrex, long distance By-pass, IPPBX, call center
- Flexible hardware configuration, easy system expansion (4 FXS-line or 4 FXO-line incremental)
- FXO Features: IVR, busy tone/caller ID detection, polarity reversal
- Support FAX (T.30/T.38), POS machine and modem
- · 500 user configurable routing rules
- PSTN failover on power failure or network interruption

MX120 VoIP Getaway is the newest family in Newrock's MX series gateway products. It offers maximum capacity of 96 FXS lines and/or FXO lines, suitable for carrier and medium enterprise VoIP deployment.

Mx120 bridges legacy telecom terminal equipments, such as telephone, FAX machine, enterprise PBX, etc, into IP based voice network that constructed by the carrier or enterprise itself. When placed at network side connecting with PSTN switch, MX120 can be use to bring remote VoIP user into PSTN network. For IP based Call Centersolution, MX120 is the ideal remote access gateway for the operators. MX120 adopts modular design, can flexible configure FXS/FXO line capacity and DSP resource to gain best

Mx120 designed with 1U (up to 48 analog lines) or 2U (up to 96 analog lines) high and 19" wide compact chassis. Full capacity system consumes maximum 125W power, and can be either 110-240V AC or -48V DC input.

Intelligent and Rich in Features

performance to cost ratio.

Mx120 adopts embedded linux operating system, supports SIP and MGCP. Work as IP-Centrex access terminal, MX120 offers rich features, such as call transfer, call pick-up, conference, caller ID, fashion ring, fork ring, FAX3, Radius call record, 500 routing rule, number translation, PSTN line fail-over on power failure or network interruption, etc. This makes MX120 suitable for variety application requirement.

Easy to Operate and Maintain

Mx120 provides WEB based management GUI. Through WEB GUI, user can configure gateway parameters, upgrade firmware, download and upload configuration data, monitor status, and etc. MX120 also support other remote management methods, such as Auto Provisioning, Telnet and EMS.

High Interoperability

Mx120 has passed the interoperability tests with many softswitch and IPPBX suppliers worldwide. It can be deployed by carriers to provide IP-centrex service, and also works with Microsoft OCS 2007, Cisco CallManager, Nortel CS1000 to provide enterprises with Unified Communication solution.

Investment Protection

When choosing next generation communication equipment for IP network, cost reduction and investment protection are the main challenges. MX120 offers best performance to cost ratio. Through software upgrade, new VoIP function and standard can be continuously delivered to customers. The innovative design in MX120 supports smooth capacity upgrade from 48 lines to 96 lines. This saves customer initial investment, at the same time support feature business grow.



Carrier Class VoIP Gateways

MX120 Series

Specification

System Features			
Hardware Configuration	24-96 FXO and FXS ports in 4-line incremental		
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), packet loss		
	compensation		
	QOS:TOS bits		
Call Features			
Calling Type	Voice/FAX/Data		
IVR Voice Prompt	FXO 2nd stage dialing		
Encryption	Support many types of signaling and/or voice encryption		
Call Handling	User configurable dialing plan, up to 500 routing rules		
Fax Processing	T.30, T.38 fax relay		
DTMF	RFC 2833, SIP INFO, audio		
Billing	RADIUS, polarity reverse		
User Feature	Call ID, call forwarding, call transfer, call fork, hotline, fashion rin		
	do not disturb, speed dialing, 3-way calling		
Network			
Security	IP address screening		
NAT Traversal	STUN, OPTIONS ping		
Protocol	PPPoE, DHCP, DNS, DDNS, 802. 1p, TFTP, telnet		
Configuration/Management			
Web GUI	Configuration, firmware upgrade, system monitoring		
EMS	Remote configuration, upgrade, alarming, traffice & statistic		
Auto Provisioning	Auto configure/upgrad, provision server discover, TFTP, FTP, HTT		
Protocol and Standard			
Protocol	RFC3261, RFC3435, 3GPP TS 24. 228, TS 24. 229		
Standard	Caller ID(FSK/DTMF), configurable call progress tone plan		
Hardware	5		
Central Processor	Freescale PowerQUICC MPC8247		
Digital Signal Processor	TI TMS320VC5509A		
System Memory	64MB/128MB		
Flash Memory	8MB/16MB		
LED	Status for power, system, network and lines		
Ethernet Connector	RJ-45, 10/100 Base-T, automatic crossover		
FXO/FXS Connector	RJ-45 (4 line pairs following T568B scheme)		
Max. User Line Length	1500 meters		
Ring Equivalent Value	5 REN (short distance)		
Power Supply	100-240V AC, 50/60 Hz, 1A max		
Power Consumption	Main chassis: 70W (Max); expansion chassis: 55W (Max)		
Dimension (H x W x D)	44 x 440 x 300 mm(single chassis)		
Weight	Net: 3.9Kg. Gross (include package): 5.4Kg (single chassis)		
Environment Requirement			
Operating	Temperature: 0 to 40°C. Humidity: 10% to 90% (non conducing)		
Non Operating	Temperature: -10 to $60^{\circ}\mathrm{C}$. Humidity: 5% to 90% (non conducing)		

Model	FXS	FXO
MX120-72S	72	0
MX120-96S	96	0
MX120-48FXO	0	48
MX120-72FXO	0	72
MX120-48S/48	48	48
MX120-60S/12	60	12
MX120-72S/24	72	24
MX120-80S/16	80	16

New Rock Technologies, Inc. is an innovative provider of IP-based voice communication equipment for service providers, enterprises, system integrators, independent software vendors and OEM partners worldwide. We have established our research and development, marketing and sales, and manufacturing operations in Shanghai, China. New Rock Technologies offers a full line of VoIP products from voice access gateway, to digital trunking gateway, IP-based PBX, gateway management system, and application software platform.

