

HX4E VoIP ATA



Max. FXS ports: 4
Max. FXO ports: 4
Max. concurrent calls: 4

Functions and Benefits

- Supports SIP/MGCP protocols
- Flexible configuration of FXS/FXO ports
- Outstanding security: Configurable SIP ports and IP address whitelist
- Supports IP/PSTN LCR selection
- Supports fax over IP using T.38 version 3 fax relay with V.34 and automatic switching between voice/fax
- Supports polarity-reversal/busy-tone detection
- Supports Auto Provisioning and TR069/SNMP
- Supports HA and PSTN failover
- Supports Class I lightning protection
- Compatible with standard SIP platforms, such as CallManager, Broadsoft, Lync/OCS, and Asterisk

Developed for small businesses, SOHO and residential IP telephony applications, the HX4E ATA is an integrated VoIP device that provides reliable and cost efficient access methods flexible for deploying converged communication solutions for network operators and enterprises as well. Powered by innovative VoIP technology from New Rock, HX4E is designed as a compact unit with 2 or 4 FXS/FXO ports, 1 WAN port, and 1 PC port, which allows users to apply it as an N-to-1 system capable of providing versatile solutions by connecting analog phone, fax and POS machine, IP telephony and PSTN.

Comprehensive Feature Set with Intelligent Engine

As an intelligent gateway running on embedded Linux operating system, HX4E is compatible with many highlighted features such as call forward, call transfer, 3-way conference, caller ID, DND, color ringback, forking, automatic routing, digitmap, PSTN failover, and much more to provide a complete and highly reliable VoIP solution applicable to most scenarios.

Easy Operation and Management

With a simple-to-use web-based configuration utility, HX4E allows users to perform routine maintenance, such as parameter configuration, data packet capture, call status monitoring, and firmware upgrade. The device also supports remote management through Auto Provisioning or TR069/ SNMP, which allows users to remotely upgrade the HX4E firmware, change the configuration parameters, and download log files.

High Interoperability

The HX4E is perfectly interoperable with legacy telephone terminals, SIP servers, and IPPBXs.

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.

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Protocols

SIP(RFC3261)	UDP, TCP for Microsoft Lync
MGCP	
IMS	
Network	Telnet, SSH, HTTP, DHCP-Client, PPPoE, Radius, DNS

Media Processing

Caller ID	Bellcore Type 1&2, ETSI, BT, NTT, and DTMF-based CID
Codes	G.711a/mu, G.729A
DTMF	Transparent transmission, RFC2833, SIP-INFO, Hook-flash events
Fax over IP	<ul style="list-style-type: none"> T.38 compliant Group 3 Fax Relay up to 33.6kbps and auto-switch to T.38 from G.711 Fax pass-through Fax data pump V.17, V.21, V.27ter, V.29, V.34 for T.38 fax relay Support Smart Fax over IP (SFoIP) to make fax event more reliable
Disconnect methods	Busy tone, Polarity reversal/wink, Loop current
Echo cancellation	

Security

User-defined ports	SIP, HTTP port to access the Web GUI, RTP
Whitelist	Whitelist of Web GUI and Telnet, IP address filtering of SIP
Encryption scheme	Encryption on SIP signaling or/and media streams
Ping blocking/unblocking	

QoS

QoS	DiffServ, TOS, 802.1P/Q VLAN tagging
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High Availability

Redundancy	Primary-Standby, Active-Standby, Load balancing
Failover	PSTN failover on power or network failure

Remote Management

Device management	TR069, SNMP
Auto Provisioning	TFTP, FTP, HTTP, DHCP option 66

Features

Call transfer	Blind transfer, Consultative transfer
Call forward	Call forward all, Call forward no answer, Call forward busy
Call control	Routing based on the caller or callee number, Digitmap, 3-way conference, Speed dialing, Do not disturb, Forking, Color ringback tone, Hunt group, Ring cadence, Message Waiting Indicator(MWI)

Management

Log management	8 levels, Syslog
Packet capturing	Ethereal capturing, Port capturing
Configuration	Configuration file import/export, Resetting to the factory default
Status and statistic	Call status and history, device state monitoring and statistics collection
Version	Firmware upgrade via Web GUI

Hardware Specifications

CPU	700MHz
RAM	64MB
FLASH	16MB

Physical Features

Dimensions(HxWxD)	1.18 x 5.91 x 4.29 in. (30 x 150 x 109 mm)
Weight (net)	0.66 lb (0.3 kg) (Max.)
Power	12V/1.5A
Mounting mechanism	Desktop

Environmental Requirements

Operating	Temperature: 32 to 104°F (0 to 40°C), Humidity: 10 to 90% RH (non-condensing)
Storage	Temperature: -40 to 158°F (-40 to 70°C), Humidity: 5 to 90% RH (non-condensing)

SKU FXS FXO

HX420E	0	2
HX402E	2	0
HX422E	2	2
HX404E	4	0
HX440E	0	4



Back panel

2 to 4 RJ11 ports	Connect to phones/fax machines or analog lines
1 RJ45 WAN port	10/100 Mbps
1 RJ45 PC port	10/100 Mbps

