



- » Max. FXS Ports: 96
- » Max. Concurrent Calls: 96
- » Dimensions: (2U) 85 H x 440 W x 300 D

The ClearlyIP 72-96 Port VoIP Gateway series is a cost-effective, high-performance VoIP gateway with up to 96 FXS ports, targeting multi-tenant, large contact center, and enterprise telephone communication applications, in which reliability and easy maintenance are critical.

Powered by innovative VoIP technology from ClearlyIP, the 72-96 port analog VoIP gateway allows users to apply it as an N-to-1 system capable of connecting analog phones, fax and POS machine, IP telephony, and PSTN.

### Comprehensive Feature Set

As an intelligent gateway running on an embedded Linux operating system, these gateways support an advanced feature set such as call forward, call transfer, 3-way calling, caller ID, DND, color ringback, call forking, automatic routing, Digitmap, and much more, to provide a complete and highly reliable VoIP solution applicable to most scenarios.

### Carrier-class Reliability

ClearlyIP gateways support high availability configuration, including SIP registration failover, load balance as well as PSTN failover, with reliable 1+1 redundancy of gigabit Ethernet ports and power supplies (optional), ensuring no loss of service and minimizing the communications downtime.

### Investment Protection

Investment protection is a significant part of the ClearlyIP VoIP product development focus, providing better returns for the customers who invest in VoIP products by maintaining compatibility with the newest VoIP technologies via software upgrading, avoiding repeated investments.

MODELS	FXS	FXO
CX-GW2U72FXS	72	0
CX-GW2U96FXS	96	0

### Features

- » SIP/MGCP protocols
- » 500 routing and number manipulation rules
- » Fax over IP using T.38 & G.711 pass-through
- » Hot-swappable RJ21 interface card with per line LED
- » Dual redundant gigabit Ethernet ports
- » Dual AC/DC power supplies available
- » Auto provisioning
- » Management with the ComXchange Gateway Provisioning Module
- » Interoperability with popular SIP servers, such as Cisco CallManager/CUCM, Broadsoft, Microsoft Skype for Business (Lync), and Asterisk/Elastix
- » Class I lightning protection



## PROTOCOLS

- › **Call Control:** SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP), MGCP (RFC3435)
- › **Network:** Telnet, SSH, HTTP, HTTPS, DHCP/PPPoE client, Radius, DNS (A/SRV record), STUN

## MEDIA PROCESSING

- › **Call ID:** Bellcore Type 1&2, ETSI, BT, NTT, and DTMF-based CID
- › **Codec:** G.711 (a/μ), G.729a, G.723.1, GSM, iLBC
- › **DTMF:** In-band audio, RFC2833, SIP-INFO
- › **Hook-Flash:** Local processing, RFC2833, SIP-INFO
- › **Fax over IP:**
  - › T.38, G.711 pass-through
  - › T.38 compliant Group 3 Fax Relay
  - › Maximum fax rate of 33,600 bps (pass-through)
- › **Disconnect Modes:** Polarity reversal, Busy tone detection, Loop current
- › **Voice-quality Enhancement:** Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC

## VOICE

- › **Call Transfer:** Blind transfer, Consultative transfer
- › **Call Forward:** Call forward all, Call forward no answer, Call forward busy
- › **Call Recording Storage:** Remote recording server for storage
- › **Call Settings:** Routing based on the caller or callee number, Digit Map, 3-way Calling, Speed Dialing, Do Not Disturb, Call Forking, Color Ringback Tones, Hunt Group, Ring Cadence, Message Waiting Indicator (MWI)

## SECURITY

- › **User-defined Ports:** SIP port, RTP port, HTTP/HTTPS port to access the Web GUI
- › **Encryption:** Encrypted password/PIN
- › **Intrusion Prevention:** Ping blocking
- › **Access List:** IP addresses allowed to access HTTP/HTTPS/Telnet/SSH service
- › **VoIP:** SIP-allowed IP Address

## QOS

- › **QoS:** DiffServ, TOS, 802.1P/Q VLAN

## HIGH AVAILABILITY

- › **Redundancy:** Primary-Standby, Active-Standby, Load balancing
- › **Failover:** PSTN failover upon power or network failure

## PROVISIONING, ADMINISTRATION & MAINTENANCE

- › **Device Management:** Management with the ComXchange Gateway Provisioning Module.
- › **Auto Provisioning:** Uses the ComXchange Web GUI to create a config file that is uploaded via TFTP/FTP/ HTTP/HTTPS.
- › **Log Management:** 8-level logs, Syslog
- › **Data Capture:** Port capture, packet capture
- › **Status and Statistic:** Call status and history, device status monitoring and statistics collection.
- › **Upgrade:** Firmware upgrade via the ComXchange Web GUI

## HARDWARE

CPU	1 GHz
Voice DSP Module	200 MHz, 3 to 12 Modules
RAM	256 MB, DDR3
Flash	32 MB
Interface Card	ClearlyIP 24 Port RJ21 FXS Card
H+W+D	85x440x300 mm
Weight (Net)	3 kg Maximum
Single/Dual AC Power	100 to 240 VAC, 50/60 Hz, 2A Maximum
Single/Dual DC Power	-36 to -72 VDC, 2.5A
Power Consumption	110 W
Mounting	Rack
Operating	Temperature: 0 to 40°C Humidity: 10 to 90% RH (non-condensing)
Storage	Temperature: -40 to 70°C Humidity: 5 to 90% RH (non-condensing)



CX-GW2U72FXS



CX-GW2U96FXS



ClearlyIP 24 Port RJ21 FXS Card

CE FC RoHS

3255 W Highview Drive, Appleton, WI 54914

Every effort has been made to ensure accuracy of this document. Due to ongoing improvements and revisions, ClearlyIP reserves the right to make changes without notice. All trademarks, service marks, trade names, trade dress, product names and logos are the property of their respective owners.

© Copyright 2023 Clearly IP. All rights reserved.

+1 855 802 6465

www.clearlyip.com