



24 Port Non-Modular FXS Analog VoIP Gateway

- » Max. FXS Ports: 24
- » Max. Concurrent Calls: 24
- » Dimensions: (1U) 44 H x 440 W x 260 D

FEATURES

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

The ClearlyIP 24 Port Non-Modular Analog VoIP Gateway is a VoIP gateway built specifically for the enterprise office telephony application market. As part of an enterprise unified communications solution, the ClearlyIP 24 Port Non-Modular Analog VoIP Gateway uses standard SIP and IMS protocols to connect directly to an operator's IMS unified communications platform or an enterprise IP-PBX over the network.

It helps enterprises realize the transition from an analog to an IP system by providing a 24 FXS interface to connect to analog phones and PSTN analog outside lines. The ClearlyIP 24 Port Non-Modular Analog VoIP Gateway's flexible configuration and reliability are more cost-effective, helping enterprises transition from office telephony to voice-over IP.

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, digit map, and much more, providing a complete and highly reliable VoIP solution.

ROBUST PROTECTION AGAINST INTRUSIONS

The ClearlyIP 24 Port Non-Modular Analog VoIP Gateway provides a rich set of features to support perimeter protection against malicious intrusions, such as brute force logins and SIP attacks, ensuring a high level of security in your IP telephony environment.

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.



SPECIFICATIONS

PROTOCOLS

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

MEDIA PROCESSING

- » **Call ID:** Bellcore/Telcordia, ETSI, BT, DTMF
- » **Codec:** G.711
- » **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
- » **QoS:** DiffServ, TOS, 802.1P/Q VLAN tagging
- » **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

- » **Protocol:** HTTPS, SSH, TLS, SRTP
- » **Encryption:** SIP signaling encryption, profile encryption import/export, password/PIN code encryption
- » **Intrusion Prevention:** Brute force login protection, Access list, Firewall, SIP-allowed IP addresses, Alarm and notification*
- » **VLAN:** Auto discovery via DHCP, Manual configuration
- » **VPN client*:** L2TP, OpenVPN

HIGH AVAILABILITY

- » **Redundancy:** Primary-Standby, Active-Standby, Load balancing
- » **Failover:** Power failure, 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
- » **RAM:** 512 MB, DDR3
- » **Flash:** 32 MB
- » **Network Interface:** 2x10/100/1000Mbps adaptive network ports* support redundancy protection
- » **Interface:** 24 Port RJ21 FXS
- » **Dimensions (H+W+D):** 44x440x260 mm
- » **Weight (Net):** 3 kg Maximum
- » **Single/Dual AC Power:** 100 to 240 VAC, 50/60 Hz, 1.2A Maximum
- » **Single/Dual DC Power:** -36 to -72 VDC, 2.5A
- » **Power Consumption:** 60 W
- » **Mounting:** Rack
- » **Operating Temperature:** 0 to 40°C
- » **Operating Humidity:** 10 to 90% RH (non-condensing)
- » **Storage Temperature:** -40 to 70°C
- » **Storage Humidity:** 5 to 90% RH (non-condensing)



CE FC RoHS

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