8 Port Analog VoIP Gateways

- » Max. FXS/FXO Ports: 8
- » Max. Concurrent Calls: 8
- » Dimensions (mm): 35 H x 228 W x 135.5 D

MODELS	FXS	FXO
CX-GW8FXS-G2	8	0
CX-GW4S4O-G2	4	4
CX-GW8FXO-G2	0	8

Features

- » IMS/SIP/MGCP protocols
- » Unequalled configurability of FXS & FXO ports
- » TLS/SRTP
- » L2TP/OpenVPN client
- » 500 routing and number-manipulation rules
- » Configurable SIP ports and IP-address whitelist
- » High-speed fax with maximum rate of 33,600 bps by T.38 or G.711 pass-through
- » Polarity-reversal/busy-tone detection
- » High availability & PSTN failover
- » 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

Developed for low-port-count applications, the 8 Port analog VoIP gateway for connecting FXO or FXS devices that provide reliable and cost-efficient access methods for deploying converged communication solutions for network operators and enterprises.

The 8 Port analog VoIP gateway is designed as a compact unit with 4, or 8 FXS/FXO ports, 1 WAN port, and 1 PC port (both are 10/100/1000Mbps Ethernet ports), which allows users to apply it as an All-in-One 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 an embedded Linux operating system, the 8 Port analog gateway is compatible with many highlighted features such as call forward, call transfer, 3-way conference, caller ID, DND, color ringback, forking, automatic routing, digit map, PSTN failover, and much more to provide a complete and highly reliable VoIP solution applicable to nearly every application scenario.

High Reliability
The hardware design of the 8 Port gateway, from architecture to component selection, takes full consideration of improving their reliability.

In addition, with high availability featuring primary-standby, active-standby, and load balance, as well as PSTN failover designed to handle the failure of the SIP proxy servers, power supply, and network, the users are provided with carrier-class reliability with minimized potential downtime.

Robust Protection Against Intrusions
The 8 Port 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.

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 (a/µ), G.729a, G.722, G.722.2
- » **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 (T.38)
- » **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:** Encrypted password/PIN
- » **Intrusion Prevention:** Brute force login protection, Access list, Firewall, SIP-allowed IP addresses, alarm and notification
- » **VLAN:** Auto discovery via DHCP, Manual configuration
- » **VLAN Client:** L2TP, OpenVPN

HIGH AVAILABILITY

- » **Redundancy:** Primary-Standby, Active-Standby, Load balancing
- » **PSTN 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.
- » **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 or auto provisioning

HARDWARE

CPU	Dual Core, 880 MHz
RAM	128 MB
Flash	16 MB
H+W+D	35 x 228 x 135.5 mm
Weight (Net)	0.825 kg
Power	12VDC/1.5A
Power Consumption	12 W
Mounting	Desktop
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-GW8FXS-G2

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CE FC **RoHS**

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