

# QUAD FXO VOICE CARD

## FOR CXR QX3440

### Features

- 4 central office or PBX line connections for QFXO
- Loop start or ground start (manufacturing option)
- A, B, C, D signaling bits per-port configurable
- User programmable A-law or Mu-law coding
- Gain adjustment per-port configurable
- User programmable balance 600/900 ohm imped
- Diagnostic Test
- Status Monitoring
- Battery reverse supported
- Intended for use with  $\pm 48$ ,  $\pm 125$ Vdc or 100 to 240Vac powered main units



### Description

CXR's QFXOA plug-in card is designed for the QX3440. It allows voice frequency interfaces to be multiplexed as a 64 Kbps DS0 signal onto a digital network. QFXOA provides four voice connections to central office or PBX and it provides user programmable A-law or m-law coding. The QFXOA supports signaling and voice tests, including Off-hook test, ring test, battery reverse test, and tip open test.

### Ordering information

To specify options, choose from the list below.

Note 1: All units are RoHS compliant units.

Note 2: Before purchasing, please check the QX3440 main brochure to see if the following models are supported by the controller to use with.

Ordering Code	Description	Note
QX3440-QFXO	Quad FXO voice plug-in card used with 4 RJ11	For QX3440 and QX3440C GS = Ground Start
QX34DD-QFXO-A	Quad FXO voice plug-in card used with 4 RJ11	For QX3440E
QX34DD-QFXO-GS	Quad FXO with GS plug-in card used with 4 RJ11	GS = Ground Start GM=GS+16khz metering pulse
QX34DD-QFXO-GM	Quad FXO with GM plug-in card used with 4 RJ11	Not applicable to $\pm 24$ Vdc powered main units.

# Product Specifications

## Voice Card (QFXOA)

<u>Connector</u>	Four RJ11 connector		
Alarm Conditioning	CGA busy after 2.5 seconds of LOS, LOF		
Encoding	A-law or m-law, user selectable together for all		
AC Impedance	Balanced 600 or 900 ohms (selectable together for all)		
Longitudinal Conversion Loss	> 46dB		
Gain Adjustment	-15 to +10 dB / 0.1dB step transmit & receive		
Signal/ Distortion	> 25dB with 1004 Hz, 0dBm input		
Frequency Response	± 0.5 dB from 300 to 3400 Hz, coincide with ITU-T G.712		
Idle Channel Noise	Max. -65 dBm0p		
Variation of Gain	±0.5dB		
FXO	Ringling REN	0.5B (AC)	
	Detectable Ringing	25 Vrms	
	Loop Resistance	≤ 1800 W	
	DC Impedance (ON-HOOK)	> 1M W	
	DC Impedance(OFF-HOOK)	235 W @ 25mA feed	
Signaling Bit A,B,C,D	Per-port configurable		

All in-band signaling tones are carried transparently by the digitizing process.

Customer is responsible for in-band signaling compatibility between a telephone and a switch, or between a PBX and a switch.

**NOTE:** The default setting for signaling bits is ETSI and for trunk condition is ON-HOOK.

### Compliance

FCC Part 68, CS-03 listed for connection to PSTN

NRTL safety listed: UL1459, CSA

ITU-T G.712

QFXOA ETSI Signaling Bits (Default Setting)

Item	FXO							
	Tx				Rx			
	A	B	C	D	A	B	C	D
OFF HOOK					1	1	*	*
OOS-ALARM					*	*	*	*
RINGING	0	0	0	1				
NO RING	0	1	0	1				
Battery Reverse	0	1	0	0				



## Application

