Version 2.2—October 06

12FXS/12FXO FOR QX3440 & QX3440-S

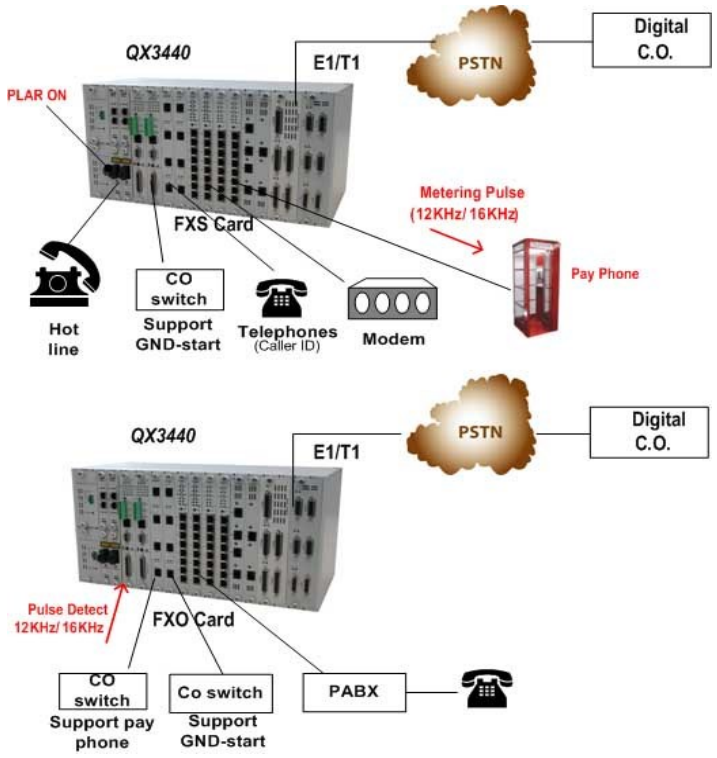
Features

- 12 telephone connections for FXS
- 12 central office or PBX line connections for FXO
- PLAR supported
- Loop start or Loop start/ ground start option
- Battery reverse supported
- DID supported
- 12KHz and 16KHz metering pulse option.
- A, B, C, D signaling bit software programmable
- A-law or m-law coding
- Most signaling conventions supported
- Multi-color LED indicators for each port
- Intended for use with -48Vdc powered main units

DESCRIPTION

CXR's 12FXS/12FXO plug-in cards are a series of 1 plug-in cards designed for the QX3440. It allows voice frequency interfaces to be multiplexed as a 64 Kbps DS0 signal onto a digital network. 12 FXS provides 12 voice Interfaces connect to telephones. 12FXO provides connections from telephone lines, either from a central office or from a PBX in RJ11X12 connector

Coding is either A-law or m-law selectable by user. Most popular signaling conventions are supported, including PLAR.



ORDERING INFORMATION

To specify options, choose from list below:

Model (RoHS compliant)	Description	Note
QX3440-12FXS-**sn**	12-channel FXS plug-in module with 600/ 900 Impedance, Battery Reverse, PLAR, without Ground Start and Metering Pulse	12FXS cards can only be used with -48 Vdc (SD and S5) power module and -125 Vdc (SD125) power module 12FXS-GMP includes all FXS card functions
QX3440-12FXS-P-**sn**	12-channel FXS plug-in module with 600/ 900 Impedance, Battery Reverse, PLAR, without Ground Start and Metering Pulse PLAR bit programmable function	
QX3440-12FXS-M	12-channel FXS plug-in module with 600/ 900 Impedance, Battery Reverse, PLAR, [Metering Pulse]	
QX3440-12FXS-MPP	12-channel FXS plug-in module with 600/ 900 Impedance, Battery Reverse, PLAR and PLAR bit programmable function, [Metering Pulse]	
QX3440-12FXS-GS	12-channel FXS plug-in module with 600/ 900 Impedance, Battery Reverse, PLAR, [Ground Start]	
QX3440-12FXS-GM-**sn**	12-channel FXS plug-in module with 600/ 900 Impedance, Battery Reverse, PLAR, [Ground Start, and Metering Pulse]	
QX3440-12FXS-GMP	12-channel FXS plug-in module with 600/ 900 Impedance, Battery Reverse, PLAR and PLAR bit programmable function, [Ground Start, and Metering Pulse]	
QX3440-12FXO	12-channel FXO plug-in module with 600/ 900 Impedance, Battery Reverse, without Ground Start and Metering Pulse	12FXO-GM includes all FXO card functions
QX3440-12FXO-M	12-channel FXO plug-in module with 600/ 900 Impedance, Battery Reverse, [Metering Pulse]	
QX3440-12FXO-GS	12-channel FXO plug-in module with 600/ 900 Impedance, Battery Reverse, [Ground Start]	
QX3440-12FXO-GM	12-channel FXO plug-in module with 600/ 900 Impedance, Battery Reverse, [Ground Start, and Metering Pulse]	

■ Where **sn** is used to select special function. If this option is not required, omit the **sn** field in the ordering code.

sn =	Description	Note
S1	FXS Loop Feed = -48 Vdc with 35 mA current limit	
S4	Remove alarm tone	
S5	Double ring tone transmit	

SPECIFICATIONS

Voice Card QX3440-12FXS and QX3440-12FXO

Connector	RJ11 x 12	
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	
Cross talk measure	Max -70dBm0	
Gain Adjustment	-21 to +10 dB / 0.1dB step transmit & receive	
Signal/ Distortion	> 25dB with 1004 Hz, 0dBm input	
Frequency Response	- 0.25 to -1 dB from 300 to 3400 Hz, coincide with ITU-T G.712	
Idle Channel Noise	Max. –65 dBm0p	
Variation of Gain	±0.5dB	
FXO	Ringing REN	0.5B (AC)
	Detectable Ringing	25 Vrms
	Loop Resistance	≦1800 Ω
	DC Impedance (ON-HOOK)	> 1M Ω
	DC Impedance (OFF-HOOK)	235 Ω@ 25 mA feed, 90 Ω@ 100 mA feed
FXS Loop Feed	Normal - 48Vdc with 25mA current limit	
FXS signaling	Normal / Automatic Ringdown	
FXS Ringing	1 REN at 5K meters per port 16.5Hz, 20Hz, 25Hz, 50Hz, user selectable for all ports 38 to 85 Vrms (sine wave), 76 Vrms for default Ring Voltage 2 sec on 4 sec off, or 1 sec on 2 sec off optional for PLAR	
Signaling	Loop Start, DTMF, pulse, PLAR, Battery Reverse	
Optional Signaling (for special order)	Ground Start, Metering pulse (12KHz, 16KHz), and P(in PLAR mode, PLAR signalling bits are programmable.	
Signaling Bit A,B,C,D	Programable bit	

- 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.

CXR Anderson Jacobson
Rue de l'Ornette
28410 Abondant - France

T +33 (0) 237 62 87 90
F +33 (0) 237 62 88 01
email: contact@cxr.com