

CXR QX3440-12FXSA/12FXOA VOICE CARD FOR QX3440

V20



Product Overview

The 12FXSA/12FXOA plug-in cards are designed for the single slot of QX3440 series. It allows voice frequency interfaces to be multiplexed as a 64 kbps DSO signal onto a digital network. 12FXSA provides 12 voice Interfaces connect to telephones. 12FXOA provides connections from telephone lines, either from a central office or from a PBX in twelve RJ11 connectors or one Telco 64 connector. Coding is either A-law or μ -law selectable by user. Most popular signaling conventions are supported, including PLAR.

Key Features

- 12 RJ11 connectors or one Telco 64 connector
- 12 telephone connections for FXS
- 12 central office or PBX line connections for FXO
- Supports PLAR
- Loop start or Loop start/ground start option
- Battery reverse supported
- DID supported
- A, B, C, D signaling bits per-port configurable
- A-law or y-law coding
- Intended for use with ±48, ±125Vdc, or 100-240Vac powered main units.
- Provides ±24Vdc powered manufacture option

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Ordering Information

To specify options, choose from the list below.

Note 1: Before purchasing, please check the QX3440 main brochure to see if the following models are supported by the controller to use with.

Model	Model Description			
QX3440-12FXSA- sn-pta-typ	12-channel FXSA plug-in card with 600/900 Impedance, Battery Reverse, Loop Start and PLAR. Without Ground Start and Metering Pulse. Used with 12 RJ11 connectors or 1 Telco 64 connector.	12FXSA-GMP includes all FXSA card functions. For sn, pta and typ option,		
QX3440-12FXSA-P -sn-pta-typ	12-channel FXSA plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR and [PLAR bit programmable]. Without Ground Start and Metering Pulse. Used with 12 RJ11 connectors or 1 Telco 64 connector.	please refer to the table below for detail information. pta = power type.		
QX3440-12FXSA-M- sn- pta-typ	12-channel FXSA plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR and [Metering Pulse]. Used with 12 RJ11 connectors or 1 Telco 64 connector.	For pta option, please refer to the table below for detail information.		
QX3440-12FXSA-MPP- sn-pta-typ	12-channel FXSA plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR, [PLAR bit programmable] and [Metering Pulse]. Used with 12 RJ11 connectors or 1 Telco 64 connector.			
QX3440-12FXSA-GS- sn-pta-typ	12-channel FXSA plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR and [Ground Start]. Used with 12 RJ11 connectors or 1 Telco 64 connector.			
QX3440-12FXSA-GM- sn-pta-typ	12-channel FXSA plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR, [Ground Start] and [Metering Pulse]. Used with 12 RJ11 connectors or 1 Telco 64 connector.			
QX3440-12FXSA-GMP- sn-pta-typ	12-channel FXSA plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR, [PLAR bit programmable], [Ground Start] and [Metering Pulse]. Used with 12 RJ11 connectors or 1 Telco 64 connector.			
QX3440-12FXOA- typ	12-channel FXOA plug-in card with 600/900 Impedance, Battery Reverse and Loop Start. Without Ground Start. Used with 12 RJ11 connectors or 1 Telco 64 connector.	For typ option, please refer to the table below for detail information.		
QX3440-12FXOA-GS- typ	12-channel FXOA plug-in card with 600/900 Impedance, Battery Reverse, Loop Start and [Ground Start]. Used with 12 RJ11 connectors or 1 Telco 64 connector.			



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sn =	Description	Notes
sn = omit	FXSA Loop Feed = -48 Vdc with 25 mA current limit; alarm tone enable; normal ring	
S1	FXSA Loop Feed = -48 Vdc with 35 mA current limit	
S4	Remove alarm tone	
S5	Double ring tone transmit	

Note: For sn (special function), please contact your nearest CXR sales representative.

Where pta is used to select the following functions for 12FXSA.

pta=	Description	Notes
24	For QX3440-CHPAa using SDPA power module with ± 24 Vdc input power	
	For QX3440-CHPAa using SDPA power module with \pm 48Vdc input power or using SDP125 power module with \pm 125Vdc input power	
PWR	For QX3440-CHPCa using SDPB power module with ± 48 Vdc input power or using SAPB power module with 100 to 240Vac input power	

Where **typ** is used to select the connector type:

typ=	Description	Notes
RJ	12 x RJ11	
TELCO	1 x Telco 64	

12 FXSA/FXOA Card Product Specifications

Connector	Т	Twelve RJ11 or one Telco 64			
Alarm Conditioning	C	CGA busy after 2.5 seconds of LOS, LOF			
Encoding	A	A-law or μ -law, user selectable together for all			
AC Impedance	E	Balanced 600 or 900 ohms (selectable together for all)			
Longitudinal Conversion Lo	ss >	> 46dB			
Cross Talk Measure	Ν	Max -70dBm0			
Gain Adjustment	F	FXS: -21 to +3 dB / 0.1dB step transmit & receive			
	F	FXO: -15 to +10 dB / 0.1dB step transmit & receive			
Signal/ Distortion	>	> 25dB with 1004 Hz, 0dBm input			
Frequency Response	<u>+</u>	± 0.5 dB from 300 to 3400 Hz, coincide with ITU-T G.712			
Idle Channel Noise	Ν	Max. –65 dBm0p			
Variation of Gain	<u>+</u>	0.5dB			
FXO	F	linging REN		0.5B (AC)	
	0	Detectable Ringing		25 Vrms	
	L	oop Resistance		\leq 1800 Ω	
	C	C Impedance (ON-HOOK)		>1M Ω	
	0	C Impedance (OFF-HOOK)		235 Ω @ 25mA feed	
FXO Signaling Bit A,B,C,D	P	er-port configurable		90 Ω @ 100mA feed	
FXS Loop Feed		-48Vdc with 25mA current limit per port			
		Jumper Selectable: 25mA(default=25mA), 30mA, or 35mA(sn=S1)			
FXS Signalling	Ν	Normal / PLAR: Private Line Auto Ring down			
FXS Ringing	1	1 REN at 5K meters per port			
		16.7Hz, 20Hz, 25Hz, 50Hz, user selectable for all ports			
		Jumper selectable: 64, 76, and 85 Vrms (triangle wave), (default= 76 Vrms for Ring			
	V	Voltage)			
	2 sec on 4 sec off, or 1 sec on 2 sec off optional for PLAR ON			tional for PLAR ON	
FXS Tone		Alarm Tone: 480Hz/620Hz/-24dBm			
	F	Ring Back Tone: 440Hz/480Hz/-19dBm			
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FXS Functions

Basic functions: Bettary Reverse, Loop Start, PLAR

Optional functions: PLAR ON/PLAR bit programmable, Ground Start, and/or Metering Pulse.

FXS Signaling Bit A,B,C,D

- 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.
- FXS specification shown above support 12FXSA card hardware version N and up.

Programable bit

Certifications

FCC Part 15 Class A, FCC Part 68, CS-03

Application Illustrations





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