



24 FXS/FXO Voice Card for QX3440

Features

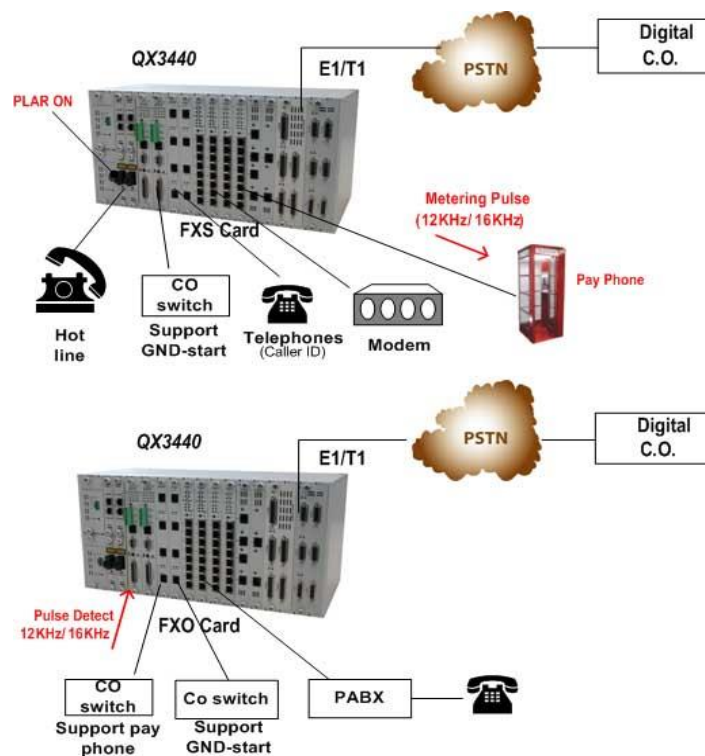
- 24 telephone connections for FXS
- 24 central office or PBX line connections for FXO
- PLAR supported
- Loop start or Loop start/ground start option
- Battery reverse supported
- DID supported
- 12 khz and 16 khz metering pulse option
- A, B, C, D signaling bit software programmable
- A-law or μ -law coding
- Most signaling conventions supported
- Multi-color LED indicators for each card
- Intended for use with -48Vdc powered main units
- RJ 21X (Telco 50 pin) Connector
- Occupies 2 QX3440 full size slots



Description

The 24FXS/24FXO plug-in cards are designed for the dual slot of QX3440 series. It allows voice frequency interfaces to be multiplexed as a 64 kbps DS0 signal onto a digital network. The 24FXS provides 24 voice interface connects to telephones. The 24FXO provide connections from telephone lines, either from a central office or from a PBX in a single RJ21X (Telco 50pin) connector.

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



Ordering Information

To specify options, choose from the list below.

Note: RoHS compliant units are identified by the letter **G** appearing immediately at the end of the ordering code.

Model (non RoHS compliant)	Description	Note
QX3440-24FXS- sn-pt	24-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, Loop Start and PLAR. Without Ground Start and Metering Pulse	24FXS-GMP includes all FXS card functions. pt= power type For sn option, please refer to the table below for detail information For pt option, please refer to the table below for detail information The IEEE1613 standard applies to QX3440 only
QX3440-24FXS-P- sn-pt	24-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR and [PLAR bit programmable]. Without Ground Start and Metering Pulse	
QX3440-24FXS-M- pt	24-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR and [Metering Pulse].	
QX3440-24FXS-MPP- pt	24-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR, [PLAR bit programmable] and [Metering Pulse].	
QX3440-24FXS-GS- pt	24-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR and [Ground Start].	
QX3440-24FXS-GM- pt	24-channel FXS plug-in card e with 600/900 Impedance, Battery Reverse, Loop Start, PLAR, [Ground Start] and [Metering Pulse].	
QX3440-24FXS-GMP- pt	24-channel FXS plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, PLAR, [PLAR bit programmable], [Ground Start] and [Metering Pulse].	
QX3440-24FXO	24-channel FXO plug-in card with 600/900 Impedance, Battery Reverse and Loop Start. Without Ground Start and [Metering Pulse].	24FXO-GM includes all FXO card functions.
QX3440-24FXO-M	24-channel FXO plug-in card with 600/900 Impedance, Battery Reverse, Loop Start and [Metering Pulse].	
QX3440-24FXO-GS	24-channel FXO plug-in card with 600/900 Impedance, Battery Reverse, Loop Start and [Ground Start].	
QX3440-24FXO-GM	24-channel FXO plug-in card with 600/900 Impedance, Battery Reverse, Loop Start, [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	

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

■ Where **pt** is used to select the following functions.

pt=	Description	Note
PWR	complied with -48 Vdc(SD, S5, SDB), -125Vdc(SD125) and AC (SAB) power modules	
PWRIE1613	complied with IEEE1613 standard, and with -48 Vdc(S5) power module	For 3440-CHA only
24	complied used with -24 Vdc(S524) power module	

Product Specifications

24 FXS/FXO Connector	One RJ21X Female connector
Alarm Conditioning	CGA busy after 2.5 seconds of LOS, LOF
Encoding	A-law or μ -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	± 0.5 dB
FXO	Ringing REN 0.5B (AC) Detectable Ringing 25 Vrms Loop Resistance $\leq 1800 \Omega$ DC Impedance (ON-HOOK) > 1M Ω DC Impedance (OFF-HOOK) 235 Ω @ 25mA feed 90 Ω @ 100mA feed
FXS Loop Feed	-48Vdc or -24Vdc with 25mA current limit per port Jumper Selectable: 25mA, 30mA, 35mA
FXS signalling	Normal / Automatic Ring down
FXS Ringing	1 REN at 5K meters per port 16.7Hz, 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 Loop Start, DTMF, pulse, PLAR, Battery Reverse
Signaling	Ground Start, Metering pulse (12 KHz, 16 KHz), and P(in PLAR mode, PLAR signalling bits are programmable.
Optional Signaling (for special order)	
Signaling Bit A,B,C,D	Programable bit
<ul style="list-style-type: none">• 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.• -24Vdc power is for FXS PCB version L and up	



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