Smart solutions for
smart networks

V1.5

QX3440-8E&MA

8-CHANNEL E&M 2W/4W VOICE CARD

Features

- ✓ Eight RJ45 connectors or one Telco 64 connector for E&M
- ✓ Supports E&M signaling over Type 1, Type 2, Type 3, Type 4 and Type 5
- ✓ Per-port programmable gain and signaling bits setting
- ✓ A side and B side supported

  (A side is exchange side, B side is carrier side)
- ✓ 2 wire, 4 wire supported
- ✓ Transmit only (TO) type supported
- ✓ A-law or μ-law coding
- ✓ Intended for use with ±48, ±125Vdc, or 100-240Vac powered main units
- ✓ Provides ±24Vdc powered manufacture option

RJ Version

TELCO Version

Description

CXR's E&MA plug-in card is designed for the QX3440 device. It allows 8 ports E&M interfaces to be multiplexed to 64 kbps DS0 signals. It can also be used as TO (Transmit Only). Voice coding can be selected as either A-law or μ-law.

CXR Networks

Ordering Information

To specify options, choose from list below:

Note1: All units are RoHS compliant

Model	Description	Notes
QX3440-8E&MA-**x-pt-typ**	8-channel 2W/4W E&MA plug-in card. Used with 8 RJ45 connectors or 1 TELCO 64 connector	**pt**=power type For **x**, **pt** and **typ** options, please refer to the table blow for detail information

List of available options if necessary

■ Where **x** is used to select signaling bits type and special functions:

x =	Description	Notes
E	Follows ETSI signaling bits (by default)	
A	Follows ANSI signaling bits	Jumper selectable for all channels
R	Reverse for ON-HOOK and OFF-HOOK signaling bits exchange	
AR	Follows ANSI signaling bits and reverse bit	
S	Follows customer's special bit or function assignment	
S4	Disable the function of the test button	
S5	Forcing all ports to be OFF-HOOK when an alarm occurs	
S6	Forcing all ports to be ON-HOOK when an alarm occurs	

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

pt=	Description	Notes
24	For QX3440-CHPA type chassis using SDA power module with ±24Vdc input power	
PWR	For QX3440-CHPA type chassis using SDA power module with ±48Vdc input power, or QX3440-CHPA type chassis using SD125 power module with ±125Vdc input power	
IPWRE1613	For QX3440-CHPA type chassis using SDA power module with ±48Vdc input power, compiled with IEEE1613 standard	

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

typ=	Description	Note
RJ	8 x RJ45	
TELCO	1 x Telco 64	

Product Specification for E&MA Interface Card

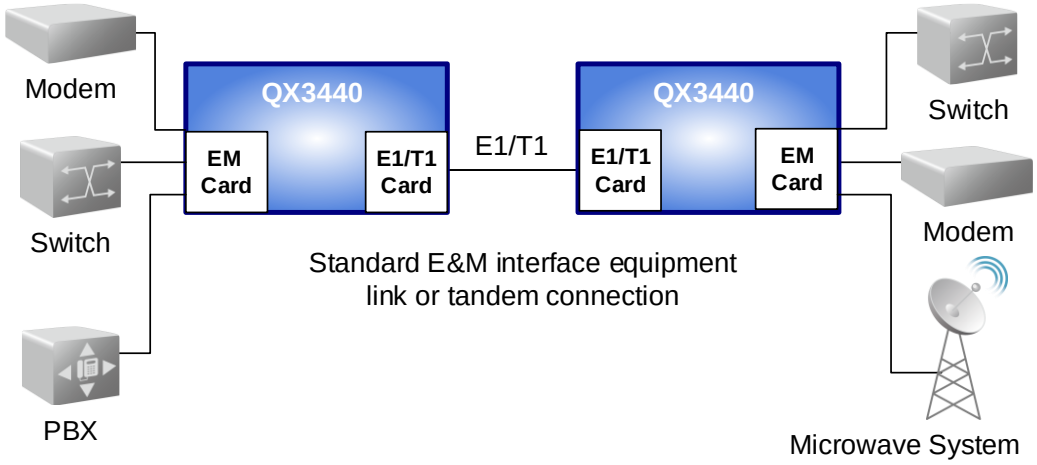
Connector	Eight RJ45 or one Telco 64
Alarm Conditioning	CGA busy after 2.5 seconds of LOS, LOF
Encoding	A-law or μ-law, user selectable together for all
Impedance	Balanced 600 or 900 ohms
Gain Adjustment (Per-port setting)	-16 to +7 dB / 0.1dB step for transmit (D/A) gain -16 to +14 dB / 0.1dB step for receive (A/D) gain
I/O Power Range	A/D Analog input level: -66 dBm (0.00039 Vrms) ~+ 3 dBm (1.09 Vrms) D/A Analog output level: -66 dBm (0.00039 Vrms) ~+ 4 dBm (1.22 Vrms)
Gain Variation	± 0.5 dB at 0 dBm0 input
Frequency Response	± 0.5 dB from 300 to 3400 Hz, coincide with ITU-T G.712
Longitudinal Conversion Loss	>46dB
Total Distortion	>35 dB at 0 dBm0 input
Idle Channel Noise	Max. –65 dBm0p
Carrier Connection	Side A (exchange side) and Side B (carrier side) setup by side switch
Wire Mode	2 wire and 4 wire (programmable)
Signaling	Type 1, Type 2, Type 3, Type 4, and Type 5, Transmit only (programmable)
Modems	Full compatibility with V.90 modems
Output Power on E/M leads	-48Vdc
E/M Leads Current Detector	>1mA

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.

Certifications

FCC Part15 Class A, FCC Part 68, CS-03

Application Illustration



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