Smart solutions for
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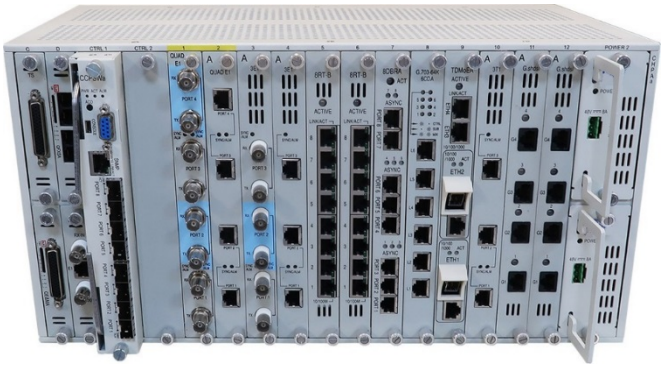
V1.4

QX3440-8E&MA

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
- Programmable gain setting per-port
- 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
- Provides ±24, ±48 or ±125Vdc powered manufacture options

Description

CXR's E&MA plug-in card is designed for the Loop-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. Manufacture options are available to use on QX3440 system with
±24, ±48 or ±125Vdc power input.

CXR Networks

Ordering Information

To specify options, choose from list below:

Model	Description	Notes
QX3440-8E&M-x-pt	8 E&M 2/4 wires Interface for QX3440 version A, use one long slot	
QX3440-8E&MA-IEEE1613	8 E&M 2 or 4 wires Interface for QX3440, use one long slot. Include IEEE1613 compliance	

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-A type chassis using SDA power module with ±24Vdc input power	
PWR	For QX3440-A type chassis using SDA power module with ±48Vdc input power, or QX3440-A type chassis using SD125 power module with ±125Vdc input power or	
IEEE1613	For QX3440-A 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	

*Future Option

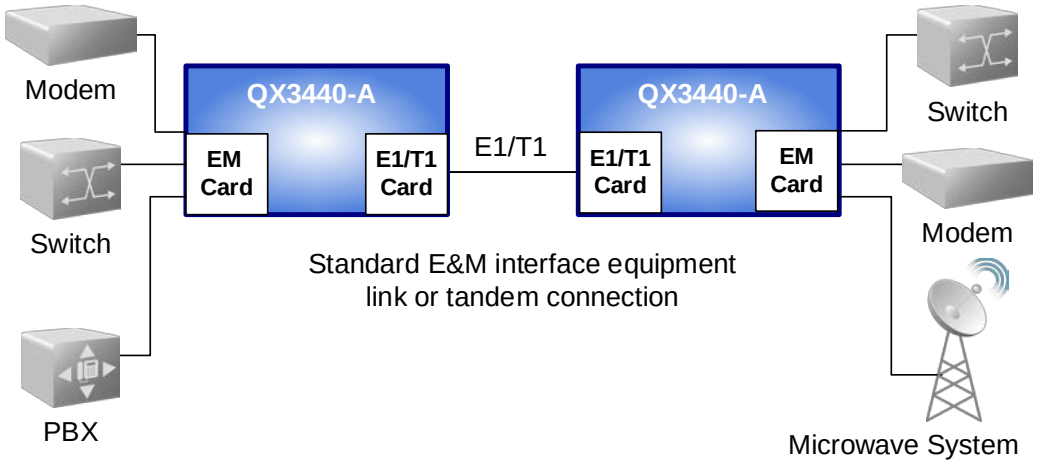
Product Specification for E&MA Interface Card

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

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.

Application Illustration



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