

8channel 2W/4W E&M Voice Card for HX9800

Features

- Eight RJ45 or 1 Telco64 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 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
- Provides ± 48 powered manufacture options

Description

CXR's E&MA plug-in card is designed for the HX9800 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 HX9800 system with ± 48 Vdc power input.

Ordering Information

Note 1: RoHS compliant units are identified by the letter **G** appearing at the end of ordering code.

Note 2: Before purchasing, please check the HX9800 main brochure to see if the following models are supported by the controller to be used with.

Model	Description	Notes
HX9800-8EMA-x-pt-ty-G	8-channel 2W/4W E&MA plug-in card	For pt , x and ty options, please refer to the table below for detailed information pt =power type

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

x =	Description	Notes
E	Follows ETSI signaling bits	Jumper selectable for all channels
A	Follows ANSI signaling bits	
R	Reverse for ON-HOOK and OFF-HOOK signaling bits exchange	
AR	Follows ANSI signaling bits and reverse bit	



Note:

1. If **x** is not selected from table above, the default setting for signaling bits is ETSI and for trunk condition is ON-HOOK.
2. If this option is not required, omit the **x** field in the ordering code.

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

pt=	Description	Note
EMV48	Output +48Vdc	
[blank]	Default output -48Vdc	

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

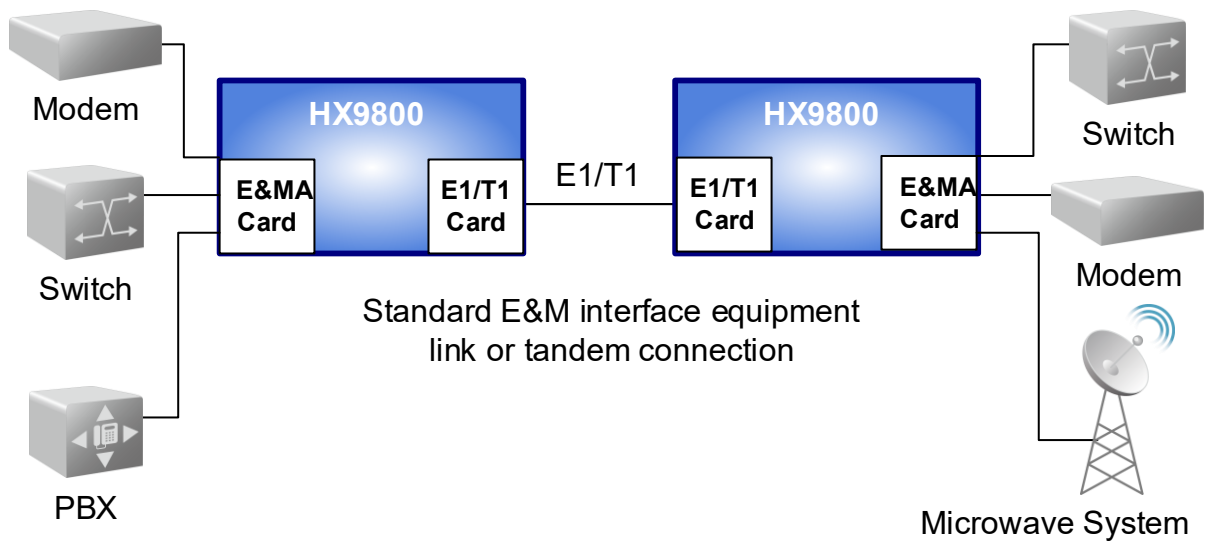
typ=	Description	Note
RJ	8 x RJ45	
TELCO	1 x Telco64	

E&MA Interface Card for HX9800 Series Product Specifications

Connector	Eight RJ45 or 1 Telco64
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	$\pm$ 0.5 dB at 0 dBm0 input
Frequency Response	$\pm$ 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	$\pm$ 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.

Application Illustrations



CXR 17 Rue de l'Ornette 28410 Abondant France
T +33 (0) 237 62 88 00 contact@cxr.com
www.cxr.com

Smart Solutions for Smart Networks

Information contained in this document is not contractual. CXR improves its products continuously. Specifications may change without notice.