Smart solutions for smart networks

8RS485 Interface Card

For CXR QX3440

FEATURES

8-port universal data interface card supports RS232/RS422/RS485 interface

- DCE interface per port
- Per port software configurable
- RS485 supports 4 wires Full Duplex
- RS422 supports 4 wires
- Supports Full-Duplex and Half-Duplex modes (optional)

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Oversampling channel to transmit ASYNC data

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N x 56/64K bps, N = 1 to 6 for DS0 channels to oversample the ASYNC data

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Channel for 56Kbps or 64Kbps is software configurable for each card application

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Card base options are Omnibus, Terminal Server, and Clock Pass Through functions

- Terminal Server (TS)
- 8 remote IP address for each physical port
- Router Mode: 64WANS, RIP-I, RIP-II, Static route
- Bandwidth for each WAN is N x 64Kbps; N=1 to 32
- Omnibus (OMNI)
- Omnibus for data
- Application of Daisy Chain, Star, Point to Multi-point
- Maximum 8 groups/per port
- Clock Pass Through (CPT)
- Pass through RS232 clock transparently for RADAR application

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Handshaking for RS232 only
Flow control for RS232 only
Loopback

Description

The 8RS485 card of QX3440 series is 8-port universal data interface card that complies with RS232/RS422/RS485 DCE interface for ASYNC data transmission by oversampling SYNC data channel. It allows multiplexing of n x 56/64Kbps data to multiply of DS0 time slot onto a digital network.

The 8RS485 card provide oversampling function as basic, it can be set to be Omnibus (OMNI), Terminal Server (TS), or Clock Pass Through (CPT) by card base.

Ordering Information

To specify options, choose from the list below:

Model	Description
Main Unit	
QX3440-8RS485	8 RS232/RS422/RS485 asynchronous interfaces (200-300-600-1.2k-2.4-4.8-9.6-38,4-57,6-115,2-128kbps per oversampling) DCE with RJ45 for QX3440, use 1 long slot
QX3440-8RS485-TS-BUS	8 RS232/RS422/RS485 asynchronous interfaces (200-300-600-1.2k-2.4-4.8-9.6-38,4-57,6-115,2-128kbps per oversampling) DCE with RJ45 for QX3440, use 1 long slot. This version support Termianl server, Omnibus with DNP3 and Modbus protocols.

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Product Specifications

RS232/RS422/RS485 Data Interface Function

Data Port	8 port Universal DTE card
ASYNC Data Rate	200,300, 600, 1200, 2400, 4800, 9600, 19.2K, 38.4K, 57.6K, 115.2K, 128K bps by oversampling
Data Interface	RS232, RS485, RS422
Connector	RJ48C
Interface	DCE only

Terminal Server Function

Data Port	8 port Terminal Server
ASYNC Data Rate	600, 1200, 2400, 4800, 9600, 19.2K, 38.4K bps
Data Interface	RS232, RS485, RS422
WAN	64 WANs per card Bandwidth for each WAN is N x 64Kbps; N=1 to 32
IP Address	Up to 8 remote IP Address per port, when role is client
Router Function	RIP-I, RIP-II, Static Route
Stop bit	1 bit, 1.5 bit and 2 bit software configurable
Parity bit	None, Odd, Even
data bit	5, 6, 7 and 8 bit.
Role	Server, Client
Data Buffer Size	1 to 2048 Byte
Data Buffer Time out	1 to 255 ms

Omnibus Function

Data Port	Eight ports per card
Asynchronous Data Rate	600, 1200, 2400, 4800, 9600, 19.2K, 38.4K bps
Data Interface	RS232, RS485, RS422
Synchronous	Not supported
Connector	RJ45C
Data Length	5, 6, 7, 8
Parity	None, Odd, Even
Stop Bit	1, 1.5, 2
Role	Master, Slave
Data Buffer Size	1~2048 Byte
Data Buffer Timeout	1~255 ms
Application	Daisy Chain, Star, Point to Multipoint

Clock Pass Through Function

Data Port	Eight ports per card
Synchronous Data Rate	600, 1200, 2400, 4800, 9600, 19.2K, 38.4K bps
Data Interface	RS232
Connector	RJ45C
Application	Pass through RS232 clock transparently for RADAR application

Flow Control

Hardware (RS232 only)	Oversampling: RTS and DTR Active and Permanent Omnibus: RTS Active and Permanent
Software	Terminal Server: Enable and Disable

Loopback

Loopback function	To DTE loopback To Local loopback

LED Indicator

Multi LED indicators	ACT: green-power on; red-alarm exist TS: green-mode is terminal server X.50 (Omni): green-mode is omnibus Over Sampling: green-mode is over sampling

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