

QX3440-8BR-RS232

DATA BRIDGE CARD FOR QX3440

Features

- Hot pluggable single slot card for QX3440 series
- ASYNC RS232 data only
- Two card types, both support 8 ports RS232 ASYNC
- 8 RJ48C card
- 2 RJ48C + 2 DB44 card
- Data bridge features
- Each card supports up to 128 DS0
- Each port supports bridge functionality to N remote tributary sites (N = 1-20)
- Works with the other equipment in the transmission of 1200 to 19200 bps asynchronous data via oversampling channel
- Protection
- 1+1 port protection
- 1+1 slot protection, switching time < 50 ms
- Dual Host Data Server
- LED status indicator



Description

The Data Bridge Card for QX3440 series has 8 RS232 ports. On the Data Bridge Card, each RS232 port uses data bridge function on 1DS0 sync 56 kbps or 64 kbps channel to get the ASYNC data from the host data server (ASYNC data rate ranges from 1.2K bps - 19.2K bps). Then the host data server will broadcast the data to the remote tributary site.

Under operation, 1 to 20 end points per multi-drop circuit go into a logical ended 56K or 64K channel, and the data at the tributary and the host end enters the channel banks through RS232 synchronous interfaces. The primary is then either mapped out the RS232 synchronous port, or is mapped to another upstream DS0. Each port RS232 could support the data bridge function reaching to 20 remote tributary sites. Each tributary is asynchronous data sent over synchronous channel using over-sampling techniques.

Protection can be (a) 1+1 on a pair of ports on the same card which provides line protection, (b) 1+1 on pair of ports on adjacent cards which provides card protection, or (c) 1+1 on a pair of ports on different chassis which provides chassis and site protection.

Ordering Information

To specify options, choose from the list below:

Note 1: All units are RoHS compliant units.

Note 2: Before purchasing, please check the QX3440 main brochure to see if the following models are supported by the controller to be used with.

Model (RoHS compliant)	Description	Notes
QX3440-8BR-RS232	8-channel data bridge plug-in card, with 8 RJ48 connectors for 8 data bridge ASYNC ports	
QX3440-8BR-RS232-DB	8-channel data bridge plug-in card, with 2 RJ48 connectors and 2DB44 connectors for 8 data bridge ASYNC ports	Two conversion cables are included (DB44 connector to two DB25 and one DB9 connector: (CXR-ACC-CAB-DB44M-100- 2DB25F-1DB09F-DB).

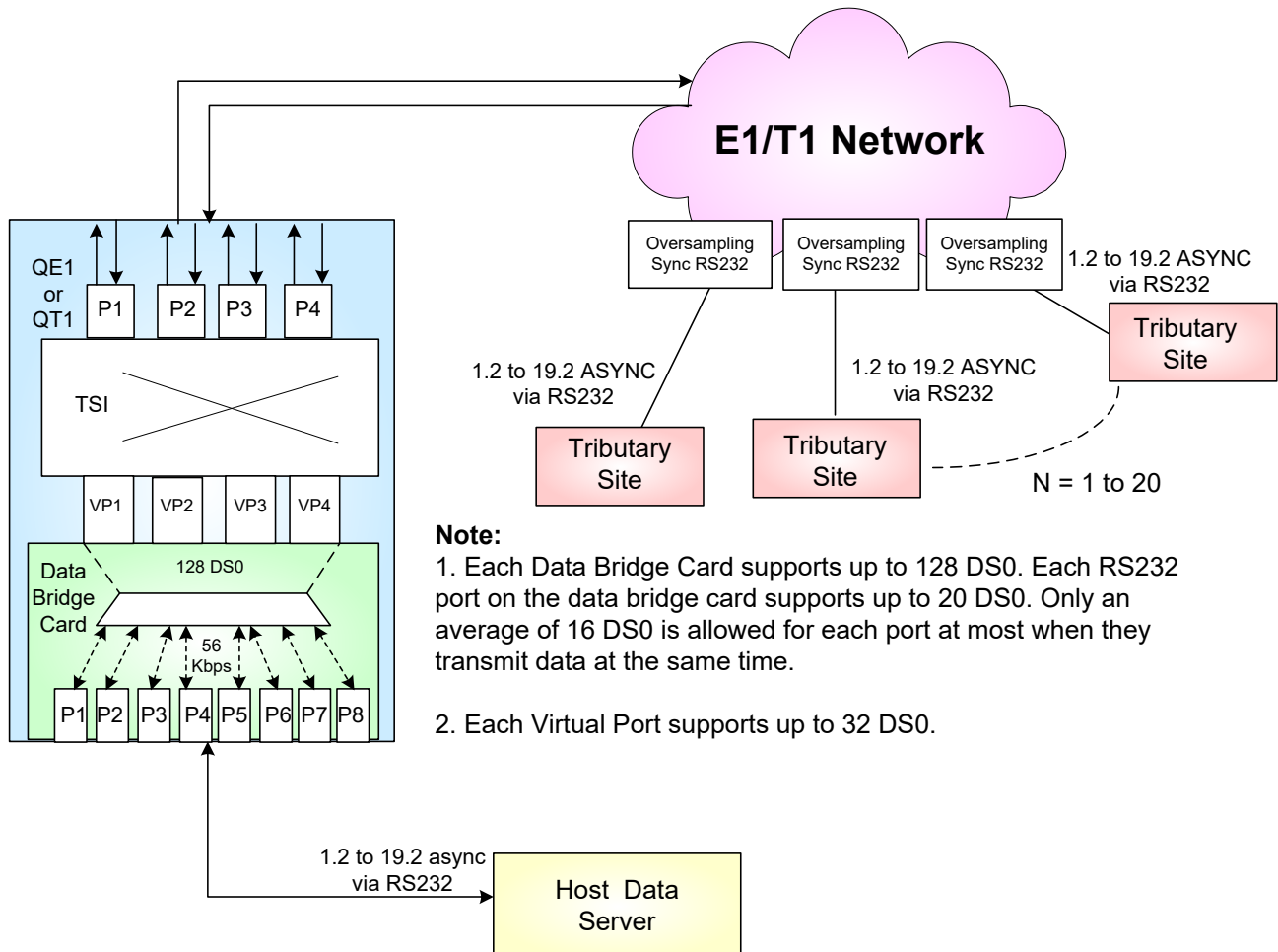
Data Bridge Card Product Specifications

DTE Interface (Data Bridge Card)

Data Port	Up to 8 ports (each card supports up to 128 DS0 for data bridge function without protection)
Connector	8 RJ48C or 2 RJ48C + 2 DB44
Feature	20 end points per multi-drop circuit into a 56K or 64K channel (1 DS0) Each port supports bridge function to N remote Trib. Site (N=1 to 20)
Data Rate	Asynchronous: Support to receive 1200 to 19200 bps asynchronous data via oversampling channel
Bridge function	one port with one DS0 to many (Maximum is 20 for remote Tributary data box)
Protection	1+1 on adjacent ports, adjacent cards, or on different chassis Virtual Port 1 to Virtual Port 4 (1 to 128 DS0): 1+1 port Virtual Port 1 to Virtual Port 3 (1 to 96 DS0): 1+1 card Virtual Port 1 to Virtual Port 3 (1 to 96 DS0): Chassis+site Note: Each virtual port supports up to 32 DS0

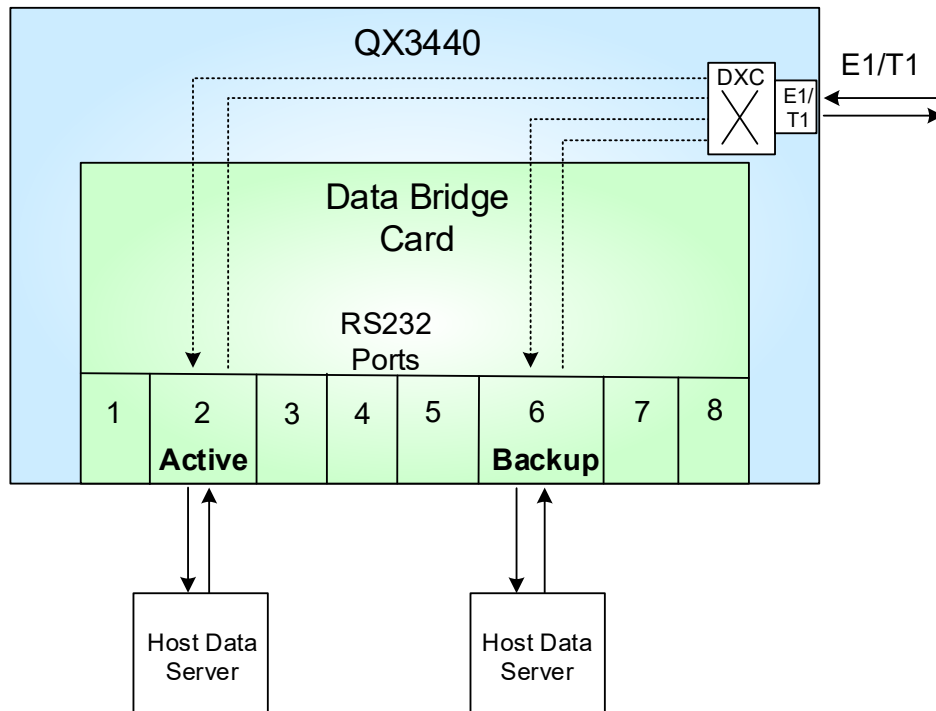
Applications

The host data server is responsible for sending requests to the target tributary site. Only one tributary site is allowed to send data to the host data server at a time. When the tributary site gets the request, it sends ASYNC data through E1/T1 network into the QX3440 device. The data from the tributary sites could either travel on separate DS0 within a single E1/T1 Network, or within separate E1/T1 Networks. The data goes into the QX3440 through the QE1/QT1 card, TSI connect mapping and the Data Bridge Card, then to the host data server.



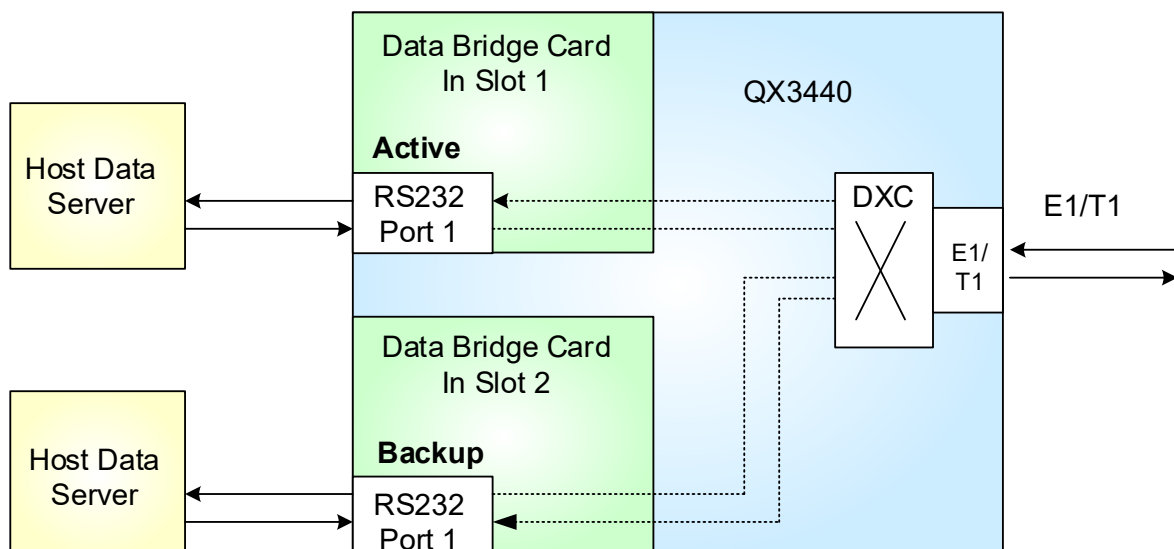
1 + 1 backup function on one Data Bridge Card

RS232 port1 and 5, port 2 and 6, port 3 and 7, port 4 and 8 work in pairs to support 1+1 backup function. Port1 to port 4 connects to the active host data server, and port 5 to port 8 connects to the backup host data server.



1 + 1 backup function on one QX3440 chassis

The Data Bridge Card in slot 1 and 2, slot 3 and 4, slot 5 and 6...slot 11 and 12 work in pairs to support 1+1 backup function.



1 + 1 backup function on different chassis

The data bridge card supports dual host data box function. When one host data server is broken, the other host data server gets and sends the data to the remote tributary data box.

