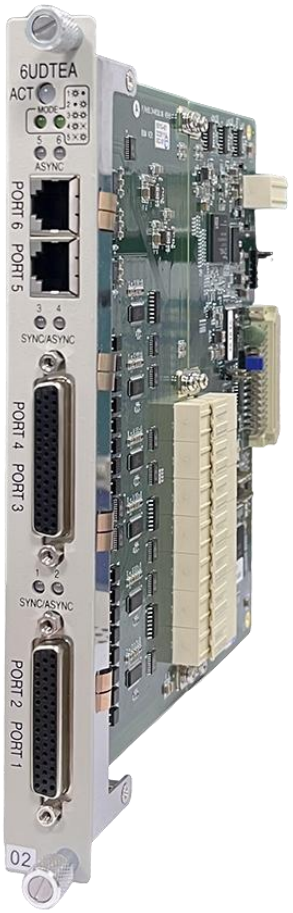
QX3440-6RS-4SERIAL-02

Features

- Supports X.21/RS232/RS422/V.35/V.36/EIA530/RS449
- Ports 1 to 4: two DB44 connectors
- Ports 5 to 6: two RJ48 connectors
- Five software configurable modes
- MODE 1: Sub-Rate Mode
  - Ports 1 to 4: X.21/RS232/RS422, ASYNC/SYNC 64kbps and subrate with V.110 encoding
  - Ports 5 to 6: RS232 for ASYNC only
- MODE 2: N x 64K Mode
  - Ports 1 to 4: X.21/RS449/RS232/RS422/V.35/V.36/EIA530 SYNC, N*64k (N=1~32)
  - Ports 5 to 6: Disabled
- MODE 3: Hybrid Mode
  - Ports 1 to 3: X.21/RS449/RS232/RS422/V.35/V.36/EIA530 SYNC, N*64k, (N=1~32).
  - Port 4: X.21/RS449/RS232/RS422/V.35/V.36/EIA530 SYNC, N*64k, (N=1~20).
  - Ports 5 to 6: RS232 N*64k (N=1~6) oversampling for ASYNC data.
- MODE 4: Clock Pass Through
  - Ports 1 to 4: X.21/RS449/RS232/RS422/V.35/V.36/EIA530 SYNC 38.4K and subrate
  - Ports 5 to 6: Disabled
- MODE 5: N x 64K with Local and Remote Loopback
  - Ports 1 to 4: X.21/RS449/RS232/RS422/V.35/V.36/EIA530 SYNC, N*64k (N=1~32)
  - Ports 5 to 6: Disabled
- Supports MUX Mode and Independent Mode for MODE 1



Description

The 6RS-4SERIAL-02 Card (6UDTEA) card for QX3440 is designed to transport DS0 and sub-rate signals. Both SYNC and ASYNC data of X.21, RS449, RS422, RS232, V.35, V.36, EIA530 can be transported on the four ports (port 1 to 4) of DB44 connector. ASYNC RS232 can be transported on the additional ports (port 5 to 6) of RJ48 connector. Per-port software configuration is available. Five modes are designed to meet different requirements of DTE signal transportation. In Mode 1, all 6 ports of 64K sub-rates can be multiplexed to one 64K channel (V.110) or used separately. In Mode 2, 3 and 5, each enabled port is able to transport N x 64K signals with different additional functions supported in each mode. In Mode 4, Clock Pass Through is available.

Ordering Information

To specify options, choose from the list below.

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

Model	Description	Notes
QX3440-6RS-4SERIAL-02	6-port universal data interface card that supports five software configurable modes: Port 1 to 4: two DB44 connectors Port 5 to 6: two RJ48 connectors	No conversion cable is included. Please order conversion cable separately from below table. Six conversion cable types are available: ACC-CAB-DB44M-100-2DB25F-VB ACC-CAB-DB44M-100-2DB15F-VB ACC-CAB-DB44M-100-1DB15F-1DB25F-VB ACC-CAB-DB44M-100- 2M34F-VB ACC-CAB-DB44M-100- 2DB37F-VB ACC-CAB-DB44M-100-1DB37F-1M34F-VB

Accessories

Model	Description	Notes
Conversion Cables (All conversion cables are RoHS compliant)		
ACC-CAB-DB44M-100-2DB25F-VB	DSUB-44 pin/Male to two DSUB-25 pin/Female plug, Length:100cm	Used in V.35, V.36 and RS232 interfaces.
ACC-CAB-DB44M-100-2DB15F-VB	DSUB-44 pin/Male to two DSUB-15 pin/Female plug, Length:100cm	Used in X.21 interface.
ACC-CAB-DB44M-100-1DB15F-1DB25F-VB	DSUB-44 pin/Male to one DSUB-15 pin/Female plug + one DSUB-25 pin/Female plug, Length:100cm	Used in RS232, V.35 and X.21 interfaces.
ACC-CAB-DB44M-100-2M34F-VB	DSUB-44 pin/Male to two M34 pin/Female plug, Length:100cm	Used in V.35 interface.
ACC-CAB-DB44M-100-2DB37F-VB	DSUB-44 pin/Male to two DSUB-37 pin/Female plug, Length:100cm	Used in EIA530/RS449 and RS422 interfaces.
ACC-CAB-DB44M-100-1DB37F-1M34F-VB	DSUB-44 pin/Male to one DSUB-37 pin/Female plug + one M34 pin/Female plug, Length:100cm	Used in V.35, EIA530/RS449 and RS422 interfaces.
Y Cable (RoHS compliant)		
ACC-Y-CAB-2DB44MP2-300-2DB25FP1P2-G	Two DSUB-44 pin/Male to two DSUB-25 pin/Female plug, Length:300cm	Used in RS232, and RS422 interfaces.

6UDTEA Card Specifications

Mode 1: (Sub-Rate Mode)

DTE Interface (X.21/RS232/RS422)

Data Port	Up to 4 (Ports 1 —4)		
MUX	Maximum 4 subrate port / 64Kbps		
Data Rate	Asynchronous	Mux mode	0.6K, 1.2K, 2.4K, 4.8K, 9.6K, 19.2K
		Independent mode	0.6K, 1.2K, 2.4K, 4.8K, 9.6K, 19.2K, 38.4K
	Synchronous	Mux mode	0.6K, 1.2K, 2.4K, 4.8K, 9.6K, 19.2K,
		Independent mode	0.6K, 1.2K, 2.4K, 4.8K, 9.6K, 19.2K, 38.4K, 48K, 64K
Connector	DB44 (Ports 1—2), DB44 (Ports 3—4)		
Alarm	Remote Alarm RTS Loss		
Loopback	To-DTE To-DS1 (To Line)		
Electrical	DCE		
Protocol	V.110		

DTE Interface (RS232)

Data Port	Up to 2 (Ports 5—6)		
MUX	Maximum 6 subrate port / 64Kbps		
Data Rate	Asynchronous	Mux mode	0.6K, 1.2K, 2.4K, 4.8K, 9.6K, 19.2K
		Independent mode	0.6K, 1.2K, 2.4K, 4.8K, 9.6K, 19.2K, 38.4K
Connector	RJ48-ASYNC (Ports 5—6)		
Alarm	Remote Alarm RTS Loss		
Loopback	To-DTE To-DS1 (To Line)		
Electrical	DCE		
Protocol	V.110		

Mode 2: (N x 64K Mode)

DTE Interface (X.21/RS232/RS422/V.35/V.36/EIA530/RS449)

Data Port	Up to 4 (Ports 1—4)
Data Rate	Synchronous N*64kbps, N = 1 to 32 (up to 2.048 Mbps). On the RS232 interface, N is limited to 1 to 2 (up to 128 kbps) Asynchronous mode is not supported.
Connector	DB44 (Ports 1—2), DB44 (Ports 3—4)
Alarm	RTS Loss
Loopback	To-DTE To-DS1 (To Line)
Electrical	DCE

Note: When oversampling is enabled in MODE2, ports 5—6 will be disabled.

Mode 3: (Hybrid Mode)

DTE Interface (X.21/RS232/RS422/V.35/V.36/EIA530/RS449)

Data Port	Up to 4 (Ports 1—4)
Data Rate	Synchronous N*64kbps, N = 1 to 32 (up to 2.048 Mbps) for ports 1 to 3, N = 1 to 20 (up to 1.28Mbps) for port 4. On the RS232 interface, N is limited to 1 to 2 (up to 128 kbps) Asynchronous mode is not supported.
Connector	DB44 (Ports 1—2), DB44 (Ports 3—4)
Alarm	RTS Loss
Loopback	To-DTE To-DS1 (To Line)
Electrical	DCE

DTE Interface (RS232)

Data Port	Up to 2 (Ports 5—6)
MUX	Maximum 2 oversampling port
Data Rate	No Synchronous mode supported Asynchronous 200, 300, 0.6K, 1.2K, 2.4K, 4.8K, 9.6K, 19.2K, 38.4K, 57.6K,
Connector	115.2K, 128K RJ48 (Ports 5—6)
Alarm	Remote Alarm
Loopback	RTS Loss To-DTE
Electrical	To-DS1 (To Line) DCE

Mode 4: (Clock Pass Through)

DTE Interface (X.21/RS449/RS422/RS232/V.35/V.36/EIA530)

Data Port	Up to 4 (Ports 1—4)
Data Rate	Synchronous 0.6K, 1.2K, 2.4K, 4.8K, 9.6K, 19.2K, 38.4K Tx and Rx byte count
Connector	DB44
Alarm	LOLC, LOCH, CRE
Loopback	To-DTE, To-DS1 (To Line)
Electrical	DCE

Note: Ports 5—6 are disabled in Mode 4.

Mode 5: N x 64K with Local and Remote Loopback

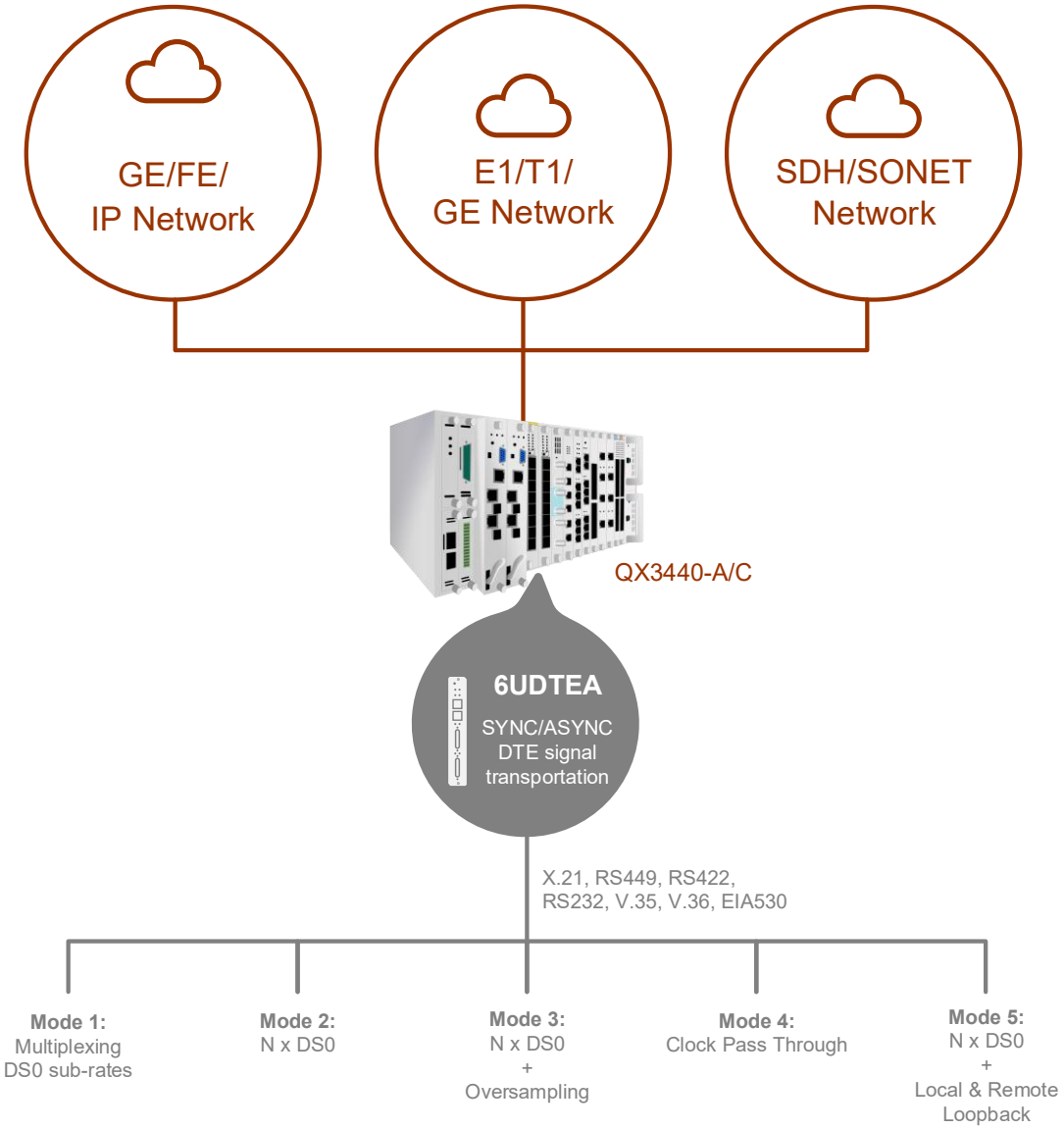
DTE Interface (X.21/RS449/RS422/RS232/V.35/V.36/EIA530)

Data Port	Up to 4 (Ports 1—4)
Data Rate	Synchronous N*64kbps, N = 1 to 32 (up to 2.048 Mbps). On the RS232 interface, N is limited to 1 to 2 (up to 128 kbps).
Connector	DB44
Protection	DTE signal duplicated via Y-box and transported by working and protection cards
Alarm	RTS Loss, FPGA fail
Diagnostics	DTE Loopback: To-DTE, To-DS1 (To Line)

	Local and Remote Loopback (except for X.21 interface) V.54 standard BERT
Electrical	DCE

Note: Ports 5—6 are disabled in Mode 5.

Application Illustration



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