



DB - 422/485-8
 DIGITAL BRIDGE
 Standard Version & Q961025E

General

This RS 422/485 Bridge is designed for expanding a single interface for connection to up to 8 devices. Three balanced signals in either RS422 or RS485 formats from a Master device are connected to the Input port of the DB422/485. The signals are then distributed to 8 individual Output ports allowing data and clock signals to be broadcast to 8 separate devices or locations.

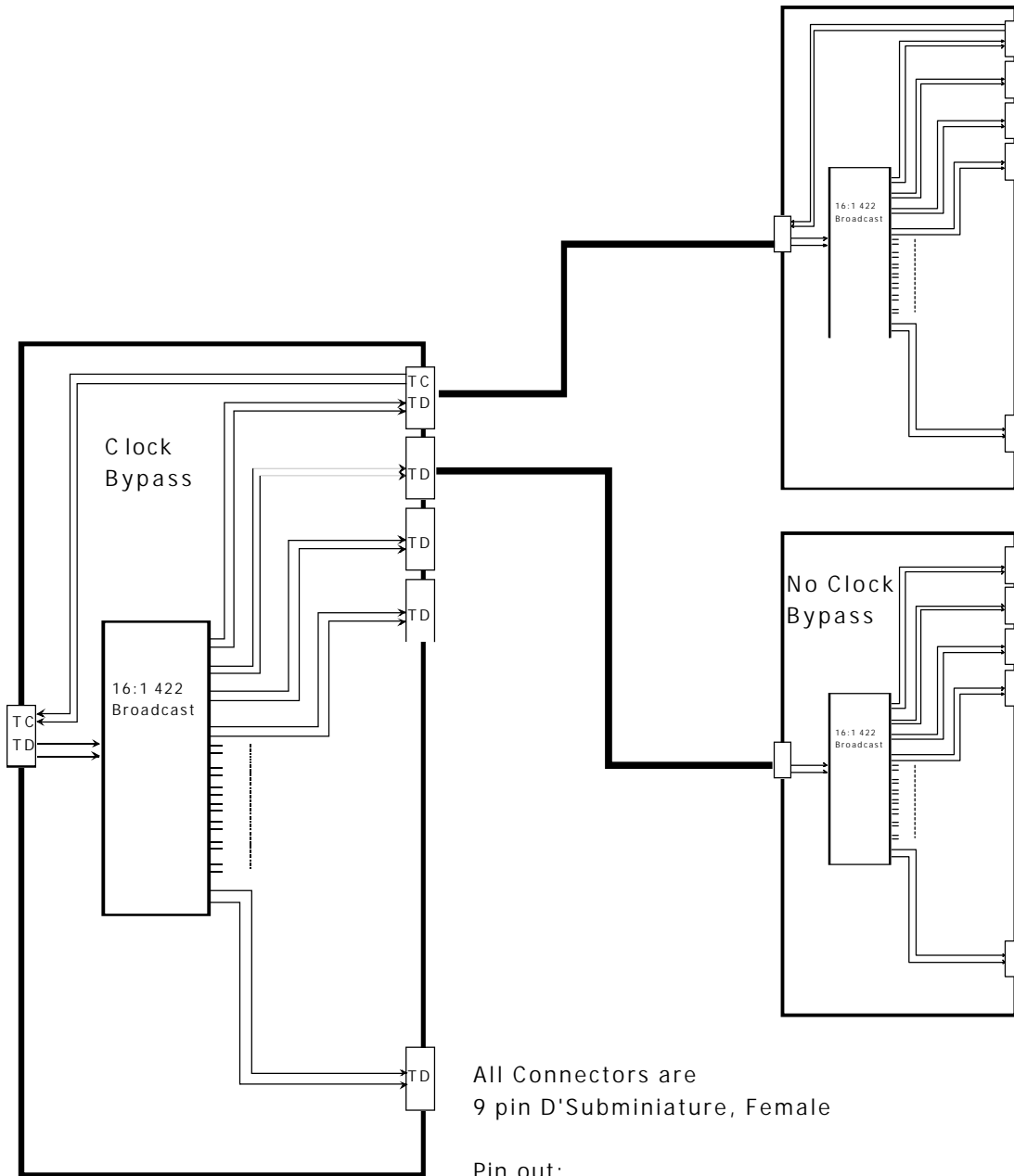
Two versions of this product are supported. Standard Units support data and clock leads broadcast from the master port to the eight distributed ports. Units with Modification Ref: Q961025E support an additional clock bypass circuit that supports clocking from distributed Port 1 to the Master. This modification allows one network connected DCE device on Port 1 to supply clock for the Master. Data still flows from the Master to the eight distributed Ports.

The signals supported in this unit are Data and Clock. Other signals can be substituted as long as they are wired correctly, observing the polarity for the balanced pairs on each port. The signals are terminated on 9 pin female D - subminiature connectors. The following is the typical wiring for the Input and Outputs :

<u>Standard Units</u>		<u>Mod Q961025E</u>	
<u>PIN#</u>	<u>Signal</u>	<u>PIN#</u>	<u>Signal</u>
1	FG	1	FG
2	+ DATA	2	+ DATA
3	- DATA	3	- DATA
4	+ CLK	4	+ CLK
5	- CLK	5	- CLK
6	SIG GND	6	SIG GND
7	No Connect	7	No Connect
8	No Connect	8	+ DCE Clock
9	No Connect	9	- DCE Clock

Led indicators on the front panel display the status of the Master / Input device. The Led will be On when a signal is present. (Space) . The Led will go off with the loss of signal or while in a Mark condition.

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All Connectors are
9 pin D'Subminiature, Female

Pin out:

- 1 Frame GND
- 2 TD A
- 3 TD B
- 4 TC A
- 5 TC B
- 6 Sig GND



Ref: Q961025E
16:1 RS-422 Broadcast
With Transmit Clock Bypass