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5000857-V2BLK CUSTOM 2U DB25 RS530 Data Monitor Switch Card with Data Carrier Detect Input CUSTOM PRODUCT SUPPLEMENT

Introduction:

The 5000857-V2BLK custom 2U DB25 RS530 Data Monitor Switch Card provides all of the same features and functions as the 5000857 standard 2U DB25 RS530 Data Monitor Switch Card, but has been modified to monitor the Data Carrier Detect signal on the C port in addition to the selected “Auto-Switch” signal on the C port.

The DB25 Data Monitor Switch Card connects DB25 port C to DB25 port A or DB25 port B. It can be configured to monitor a signal on the C port, and switch to the un-selected port when the monitored signal is “not active”. Refer to the DB25 Data Monitor Switch Card manual for details on standard configuration options.

For this specific application, the Received Data is framed by an active Data Carrier Detect signal. The custom DB25 Data Monitor Switch Card is being used to monitor the Received Data AND the Data Carrier Detect signals on the C port. Both signals must be “active” to maintain the currently selected connection. The “Auto-Switch” feature is still subject to standard “Look-Ahead”, time delay, and other standard configuration options.

The 5000857-V2BLK, like the 5000857-V1BLK, contains two sets of wire jumpers; one set connects the A port TXD signal to the B port TXD signal, the second set connects the A port RTS signal to the B port RTS signal. This is to provide “active” RXD and DCD at the other end of two fiber optic modem links.

Configuration:

On the standard DB25 Data Monitor Switch Card, position 7 of the “Auto-Switch” configuration Dip Switch SW1 is reserved for future use, and is left in the OFF position. This custom DB25 Data Monitor Switch Card uses position 7 to enable and disable the “AND DCD” feature.

SW1 position 7:

OFF – Standard Auto-Switch Operation

ON – Enable “AND DCD” feature

When “AND DCD” feature is enabled, both the selected “Auto-Switch” input AND the Data Carrier Detect input must be “active” to maintain the currently selected connection. The “Auto-Switch” input can be configured for “active” level, or transitions. The Data Carrier Detect input is “active” level only.

This custom does NOT affect the “Look-Ahead” feature, which checks for a single “active” signal on the un-selected port.