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Product Description

The field-replaceable 4-port RS232 serial line conditioner is for use with the Macrolink MVC/Quick, MVCP, MVCS, and MCC/S high performance serial communications multiplexors (commuxes). You may change line disciplines in a matter of minutes by simply removing one serial line conditioner and installing another.

The serial line conditioner is available in three different versions, as indicated by the two digit number (dash number) following the six digit serial line conditioner part number on your packing list. Consult the table below to verify that you have ordered the appropriate serial line conditioner for use with your commux.

RS232 Serial Line Conditioner		
Part Number	**Used With**	**Comments**
221044-00	MVCP	Inverted CD ports
221044-01	MVC/Quick	Non-inverting
221044-02	MVCS, MCCS	No switches or drivers for sync clocks

Important

The serial line conditioners and commux boards use sensitive electronic circuitry that can be easily damaged by electrostatic discharge. Personnel handling the board must exercise proper static control methods. Open the shipping carton only at an approved static-controlled workstation. An anti-static bag, anti-static bin, or the original packaging material must be used when transporting the board.

Removal/Installation

To remove a serial line conditioner, release the locking clips at both ends of the serial line conditioner socket. While holding the clips back, tilt the serial line conditioner away from the socket. Lift the serial line conditioner from the socket.

Before installing the serial line conditioner, verify the switch settings according to the table on the next page. Gently insert the serial line conditioner into the socket on the commux or P2 I/O adapter, with the top of the serial line conditioner angled about 30 degrees away from the socket. The pin 1 end of the serial line conditioner is indicated by a notch in the side next to the pins. This end is oriented towards the bottom edge of the commux, or the top edge of the P2 I/O adapter. Tilt the serial line conditioner to the vertical position until the locking clips snap into place.

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Switch Settings

The -00 and -01 versions of the RS232 serial line conditioner are equipped with DIP switches that are used to select the direction of the synchronous transmit and receive clocks on a port by port basis. Each clock is controlled by two switches. The switch settings are shown in the table below. Turn both switches off to disable clocks on the selected port. See the front cover illustration to locate the switches.

RS232 Serial Line Conditioner Configuration		
Signal	**Direction**	**Switch Setting**
RXCLK Port 0, 4, 8, C	Send	SW2-1 On, SW2-2 Off
	Receive	SW2-1 Off, SW2-2 On
TXCLK Port 0, 4, 8, C	Send	SW2-3 On, SW2-4 Off
	Receive	SW2-3 Off, SW2-4 On
RXCLK Port 1, 5, 9, D	Send	SW2-5 On, SW2-6 Off
	Receive	SW2-5 Off, SW2-6 On
TXCLK Port 1, 5, 9, D	Send	SW2-7 On, SW2-8 Off
	Receive	SW2-7 Off, SW2-8 On
RXCLK Port 2, 6, A, E	Send	SW1-1 On, SW1-2 Off
	Receive	SW1-1 Off, SW1-2 On
TXCLK Port 2, 6, A, E	Send	SW1-3 On, SW1-4 Off
	Receive	SW1-3 Off, SW1-4 On
RXCLK Port 3, 7, B, F	Send	SW1-5 On, SW1-6 Off
	Receive	SW1-5 Off, SW1-6 On
TXCLK Port 3, 7, B, F	Send	SW1-7 On, SW1-8 Off
	Receive	SW1-7 Off, SW1-8 On

The -02 serial line conditioner does not use configuration switches.

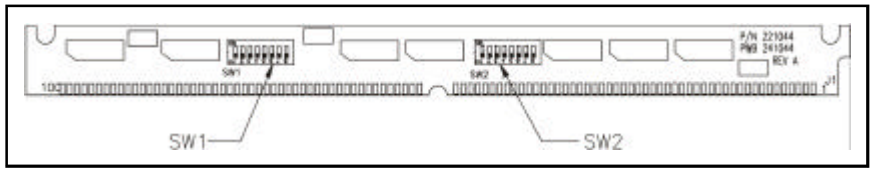
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Macrolink 4 Port RS232 Serial Line Conditioner

For use with the Macrolink MVC/Quick, MVCP, MVCS, and MCC/S Serial Communications Multiplexors

Product P/N 221044
Manual P/N 341044 Rev. A
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Warning

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with this instruction manual, may cause interference to radio and television reception. This equipment has been designed to comply with the limits for a Class A computing device in accordance with the specifications in Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, requiring the user, at his own expense, to take whatever measures may be necessary to correct the interference.

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient the receiving antenna.
2. Relocate the computer with respect to the receiver.
3. Move the computer away from the receiver.
4. Plug the computer into a different outlet, so that the computer and receiver are on different circuit branches.
5. Ensure that the mounting screws, attachment connector screws, and grounding connections are securely tightened.
6. Ensure that good quality, shielded and grounded cables are used for data communications.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. You may find the booklet HOW TO IDENTIFY AND RESOLVE RADIO-TV INTERFERENCE PROBLEMS prepared by the Federal Communications Commission helpful. This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20420, Stock No. 004-000-0345-4.

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