

# Appendix A—MA-480 SynchroCast3 Module Adapter

## A.1 MA-480 Block Diagram and Board Views

Figure A-1 shows the MA-480 block diagram. One phone jack is dual function. It can be connected to the timing port of the CM-5/7R-TD. The function of this port—timing is controlled by the SNC-101 module.

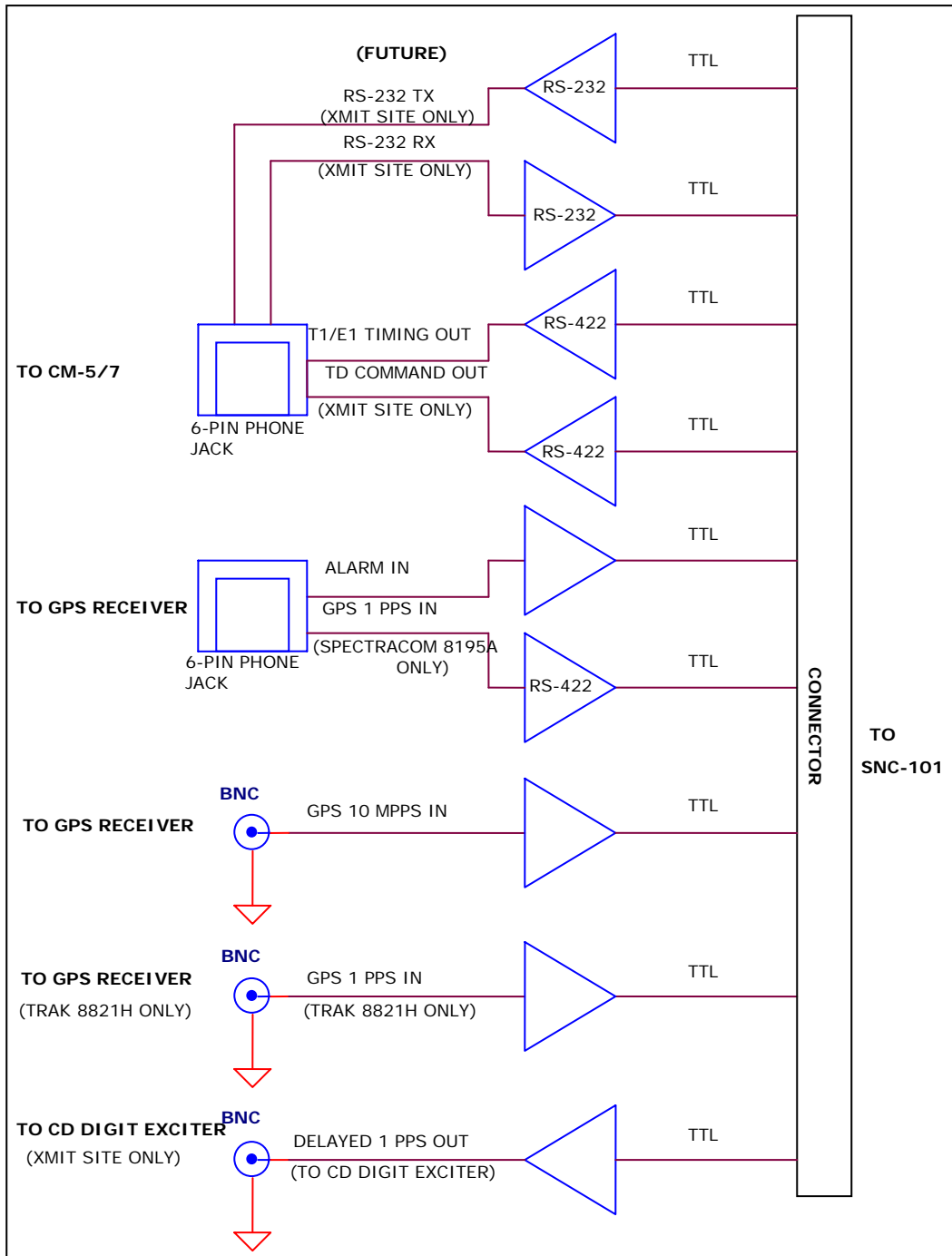


Figure A-1. MA-480 Block Diagram

Figure A-2 shows a board and panel view of the SynchroCast MA-480 module adapter.

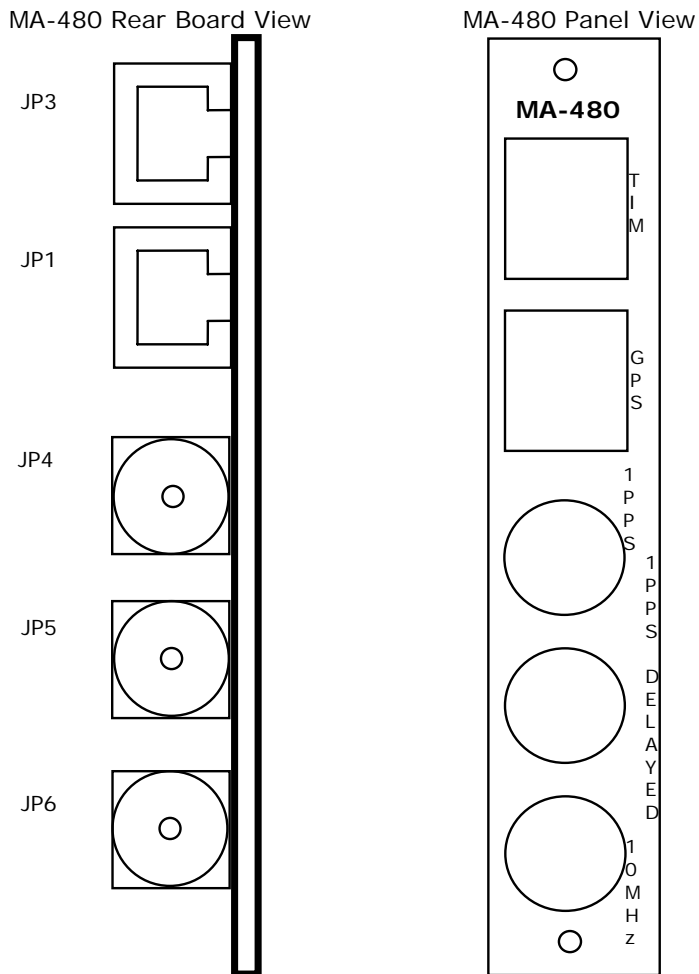


Figure A-2. MA-480 Rear Board and Panel Views

## A.2 MA-480 Switches

The MA-480 module adapter has a 6 DIP position switch for setting impedance matching for various user signal inputs. Table A-1 shows the function of each switch.

**Table A-1. MA-480 Switches**

Switch	Factory Default	Description
1	Off	<p>This switch controls the termination impedance of the 1 PPS GPS receiver signal (from the Trak 8821H only). If off, the termination impedance is removed. If on, the termination impedance is 50 Ohms.</p> <p>When using a single GPS receiver to connect multiple shelves, only one SynchroCast3 shelf receiving the same Trak 8821H 1 PPS signal should have this switch on. All others should be off.</p>
2	Off	<p>This switch controls the termination impedance of the 10 MPPS GPS receiver signal. If off, the termination impedance is removed. If on, the termination impedance is 50 Ohms.</p> <p>When using a single GPS receiver to connect multiple shelves, only one SynchroCast3 shelf receiving the same GPS receiver signal should have this switch on. All others should be off.</p>
3, 4, 5	Off	<p>These switches control the bias and termination impedance of the 1 PPS GPS receiver RS-422 signal (from the Spectracom 8195A only). These switches should be set as a group (all switches on or off). When on, bias and termination is applied. If on, 120 Ohm termination is applied with 1 kOhm biasing.</p> <p>When using a single GPS receiver to connect multiple shelves, only one SynchroCast3 shelf receiving the same Spectracom 8195A 1 PPS signal should have this group of switches on. All other shelves should have this group off.</p>
6	Off	Not Used