

Date: Fri, 02 Aug 2002 11:43:18 -0700
From: Tiffany Wilkes
Subject: Notes on PATT03, SVX4 Scrambler and CIO-DAC02/16 Boards

NOTES ON PATT03 board and SVX4 Scrambler
(per 07/26/2002 trip to LBL)

Modification to the PATT03 board:

1) Since the Pattern FIFO strobe signal coming from the computer is not differential, we must remove the differential receiver at U11, and jumper pins 14 and 13.

NOTE:(08/02/2002) Actually, I believe the signal coming from the computer is generated as differential by the svxscope software (pins 41/43 on the Port 0 cable). They pass straight through the Buffer Board to the PATT03 board to pins 3 and 4 of the 34-pin connector on the PATT03 board. Right now we have removed the differential receiver at U11 and jumpered pins 14 and 13. So, we have selected only the signal from pin 3 (called STROBE_INPUT+ on my PATT03 pinout). By taking only "half" of the differential signal, we have turned it into a single ended signal. I believe we could put the differential receiver back in, and it would still work.--TW

2) The enable jumper between connectors J1 and J2 needs to be set properly for burn-in vs. test-stand usage. For test-stand usage, when looking at the BOTTOM of the board, the middle and right-most pads should be jumpered. This sets the enables lines on the receivers high. For burn-in usage, the middle and left-most pads should be jumpered.

NOTE:
WE WILL NEED TO VERIFY THAT THE BURN-IN SOFTWARE USES THIS ENABLE LINE CORRECTLY.

Modifications to SVX4 Scrambler:

1) On BOTTOM of board, at the 60 pin connector to the Chip Test Card, pins 18 - 32 (all labeled BGnd on Britt's pinout) are separated from GND and are not connected to anything. We need to jumper this segment over to the ground plane.

2) The D0/CDF jumper is labeled incorrectly at the center of the board (next to the 60 pin connector)--need to switch the labels.

--TW

NOTE ON CIO-DAC02/16

This card is used by the svxscope software to inject charge into the preamplifiers on the SVX4 chip. There are two banks of switches on the card which control the range of the output. The switches should be set so that the range is 0 to +5V. See page 4 of the user's manual for the switch settings.--TW