

CRO Connector description :

There are the following connectors. The position can be found in the latest revision of the assembly drawing.

CRO-Digital :

SV1 :

In System Programmer for FPGAs

This connector can be used to program the EPLD's on the CRO-board. Since the EPLDS's are usually programmed only once, there is no need to provide an external feed through.

SV2 :

In System Programmer for the Microcontroller.

Connector used to reset the micro controller for reprogramming.

Pins 1 and 2 must be tied together before powering up the CRO in case that a new SW is to be downloaded to the flash memory (see SOFTWAREUPDATE.DOC)

Pin 1 : GND

Pin 2 internal Pull-up to +5V.

SV3 :

CRO analogue connection

Pin 1 : DAC_DATA

Pin 2 : DAC_CLK

Pin 3 : GND

Pin 4 : GND

Pin 5 : THERM_CLK (leave open)

Pin 6 : THERM_DATA (leave open)

SV4 :

Oscillator frequency input fx

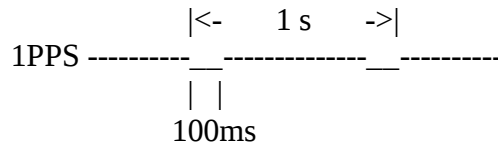
Pin 1 : GND

Pin 2 : Fx_IN

SV5 : GPS 1PPS input

Pin 1 : GPS 1PPS Input (TTL)

Pin 2 : GND



SV6 I2C tuner connector

Pin 1 : TUNER_DATA

Pin 2 : GND

Pin 3 : TUNER_CLK

SV7 : Supply voltage connector

Pin 1 : GND

Pin 2 : GND

Pin 3 : VCC (+7..12V) 8V are perfect

Pin 4 : VCC (+7..12V) 8V are perfect

SV8 : FBAS input from tuner

Pin 1 : GND

Pin 2 : FBAS

SV9 : LCD and key connection

Pin 1 : GND

Pin 2 : +5V

Pin 3 : VLCD

Pin 4 : LCD_A0

Pin 5 : LCD_RW

Pin 6 : LCD_ENA

Pin 7 : LCD_D0

Pin 8 : LCD_D1

Pin 9 : LCD_D2

Pin 10 : LCD_D3

Pin 11 : LCD_D4

Pin 12 : LCD_D5

Pin 13 : LCD_D6

Pin 14 : LCD_D7

Pin 15 : GND

Pin 16 : GND

Pin 17 : KEY_3

Pin 18 : KEY_2

Pin 19 : KEY_1

Pin 20 : KEY_0

Pin 21 : NC

Pin 22 : NC

Pin 23 : NC
Pin 24 : NC
Pin 25 : GND
Pin 26 : GND

SV10 : RS232 (V24)

Pin 1 : V24_TXD
Pin 2 : GND
Pin 3 : V24_RXD

CRO analogue circuit:

SV1 :Electronic Frequency Control (EFC) voltage output, (connected to the OCXO)

Pin 1 : ANALOG_OUT
Pin 2 : GND
Pin 3 : ANALOG_OUT
Pin 4 : GND
Pin 5 : ANALOG_OUT
Pin 6 : GND

SV4 : Connection of CRO-Digital and power supply

Pin 1 : +17V..19V
Pin 2 : GND
Pin 3 : +17V..19V
Pin 4 : GND
Pin 5 : NC
Pin 6 : GND
Pin 7 : THERM_DATA (leave unconnected)
Pin 8 : GND
Pin 9 : THERM_CLK (leave unconnected)
Pin 10 : GND
Pin 11 : DAC_DATA
Pin 12 : GND
Pin 13 : DAC_CS
Pin 14 : GND
Pin 15 : DAC_CLK
Pin 16 : GND