



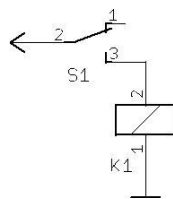
Band Decoder Manual

Input:

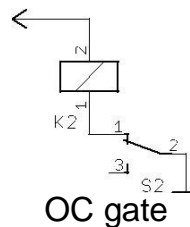
- ◆ RS232 : Kenwood、YAESU (FT-450D and later) 、K3、K3S.
CI-V: Support CI-V, all ICOM except IC-735
- ◆ BCD code: YAESU BCD , & K3、K3S.
ICOMband V: 0-8V as band data.

Output:

- ◆ Source output: common cathode on 11 bands
- ◆ OC gate output: common anode



Source output



OC gate

CAUTION:

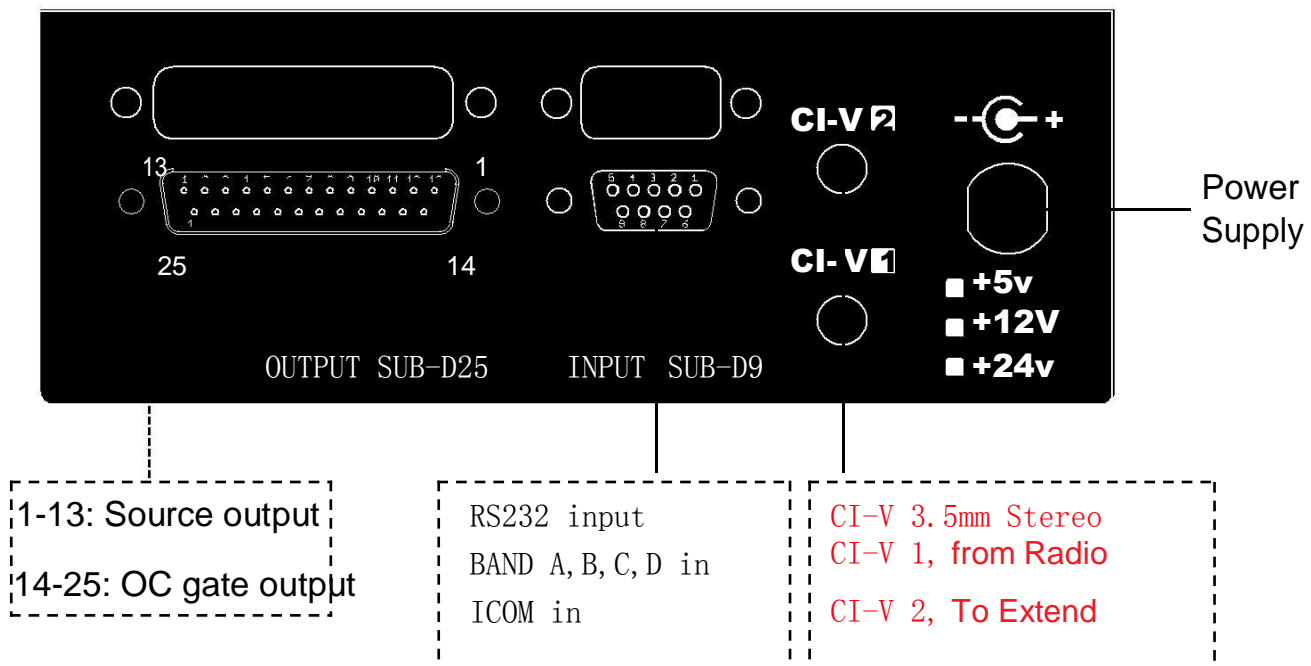
Please ensure the equipment controlled is correct, in case of any damage!!!

Front panel



UP/DN for band changes on
MANUAL mode
(when no cables connected to any inputs)

Rear panel

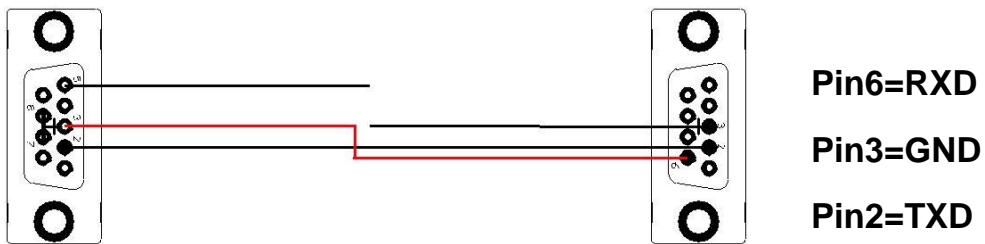


Input wiring

- CI-V: use 3.5mm AF cable(either mono/stereo); ICOM settings: Baud rate 9600 ,HEX add:7ab

CI-V 1: Radio, CI-V 2: Expander Device

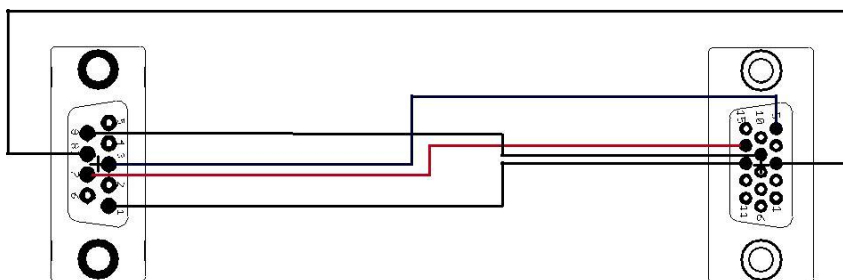
- Kenwood /K3/Yaesu , use RS232 , Baud :9600 . (For SteppIR SDA100 as well)



Kenwood/Yaesu com

Band decoder

- K3/Yaesu , use BCD, (K3) .

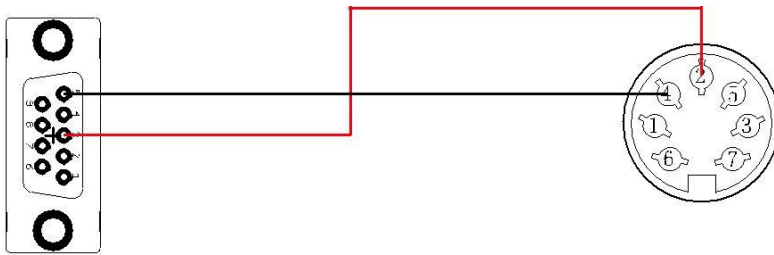


Band decoder

K3 ACC

- Pin 1=Band A**
- Pin 8=Band B**
- Pin 9=Band C**
- Pin 7=Band D**
- Pin 3=GND**

● ICOM ACC Voltage



Band decoder

ICOM ACC2

Pin 3=GND

Pin 5=Band Voltage

● SunSDR 2 Pro

SunSDR2 PRO wiring

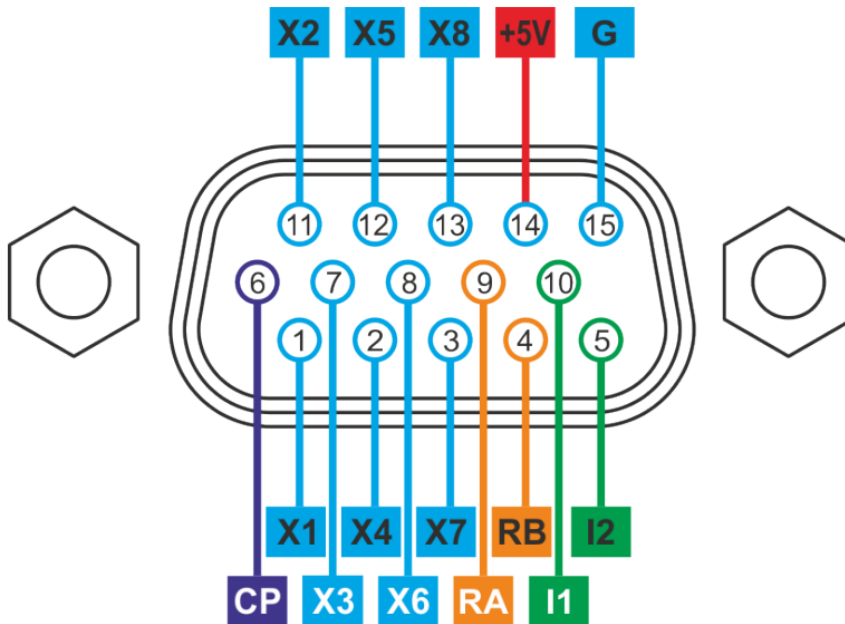
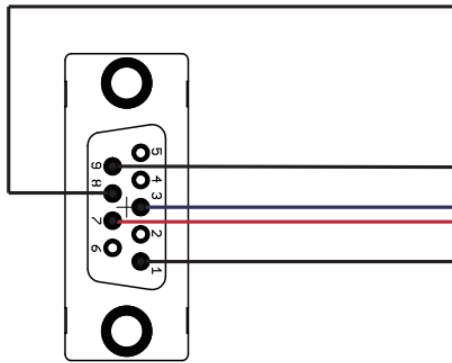


Figure 6.1 – Layout and pinout of the EXT CTRL connector

- X3(pin7) Band A
- X4(pin2) Band B
- X5(pin12) Band C
- X6(pin8) Band D

Band Decoder wiring



Band decoder

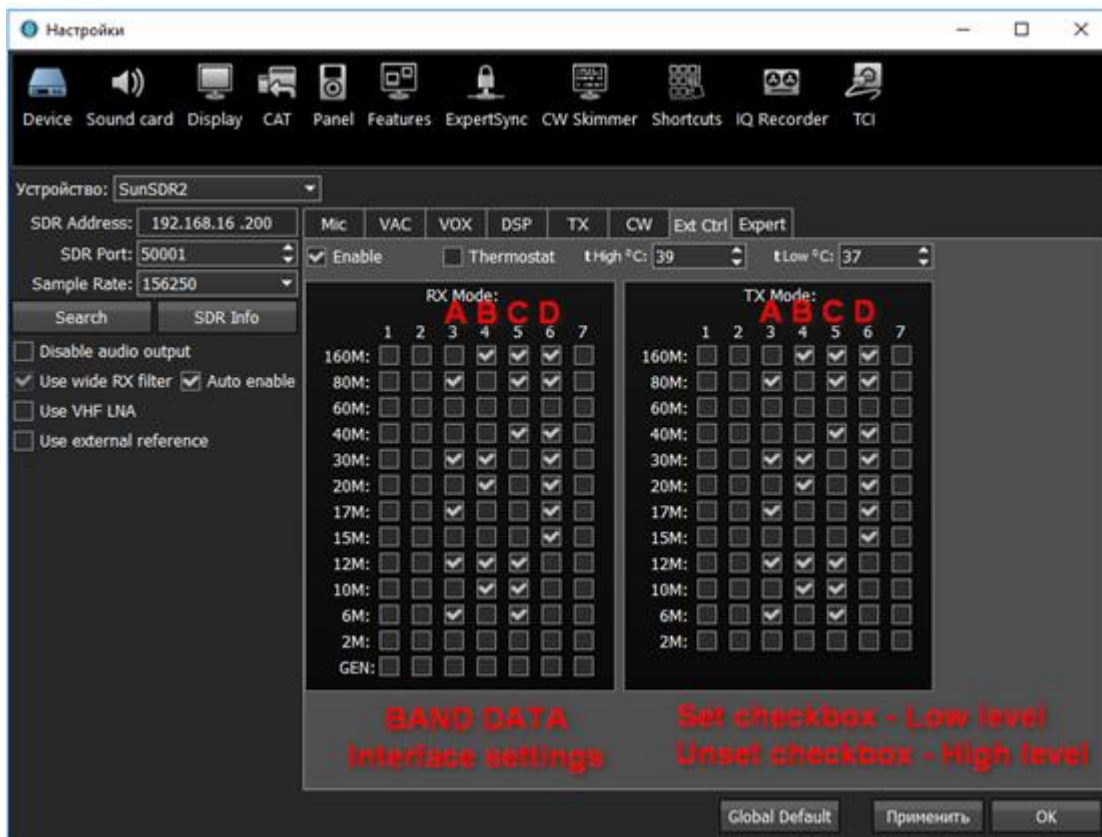
Pin 1=Band A

Pin 8=Band B

Pin 9=Band C

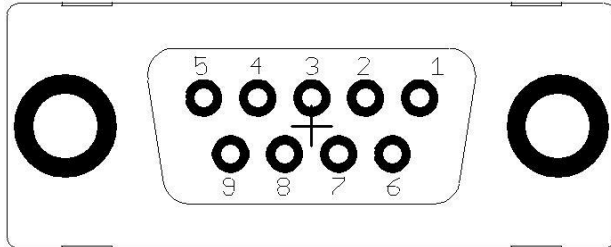
Pin 7=Band D

Pin 3=GND



ExpertSDR2 settings

Input description:



Band decoder

Pin 1=Band A

Pin 2=TXD

Pin 3=GND

Pin 4=N/A

Pin 5=Band Voltage

Pin 6=RXD

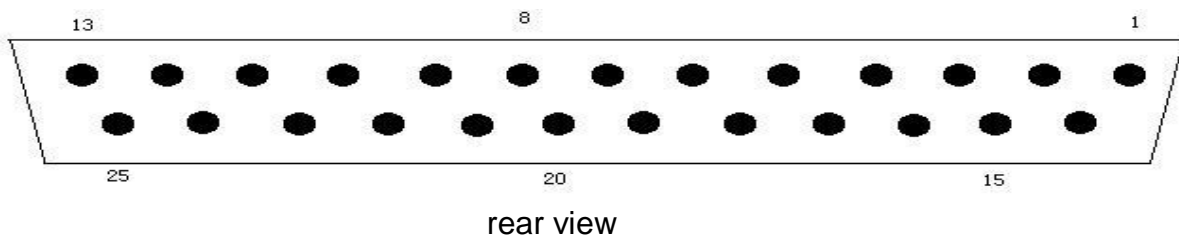
Pin 7=Band D

Pin 8=Band B

Pin 9=Band C



Output pin description



(Pin1-Pin13) Source output. Common cathode;Positive voltage output

Pin1=160 m

Pin2=80 m

Pin3=60 m

Pin4=40 m

Pin5=30 m

Pin6=20 m

Pin7=17 m

Pin8=15 m

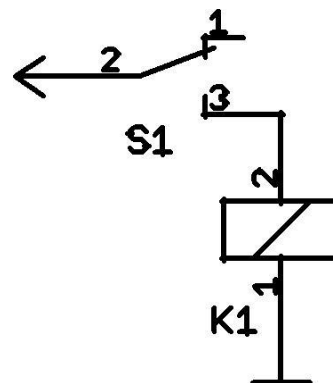
Pin9=12 m

Pin10=10 m

Pin11=6 m

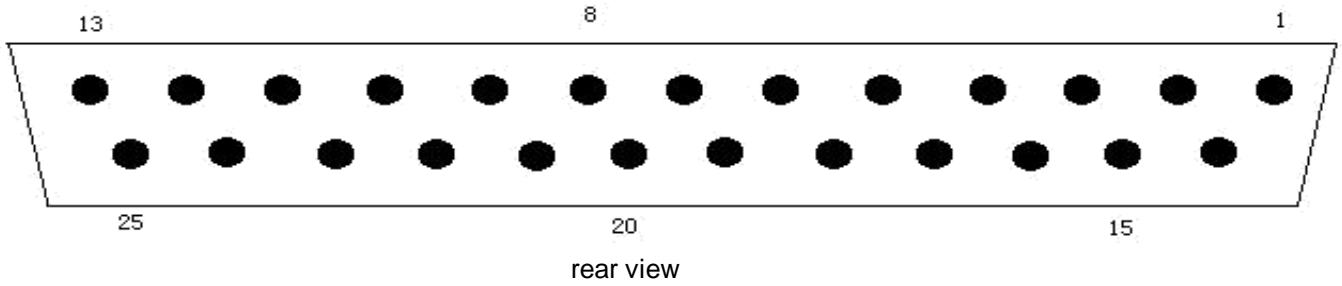
Pin12=N/A

Pin13=GND



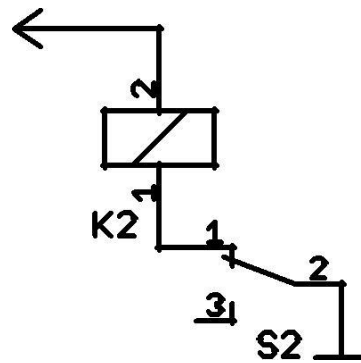
Source Output





(Pin14-Pin25) OC gate output. Common Anode; Each pin GND trigger

- Pin14=160 m
- Pin15=80 m
- Pin16=60 m
- Pin17=40 m
- Pin18=30 m
- Pin19=20 m
- Pin20=17 m
- Pin21=15 m
- Pin22=12 m
- Pin23=10 m
- Pin24=6 m
- Pin25=VCC(+12V or +24V)



OC gate output

