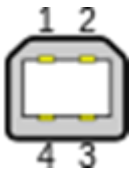
Pinouts: Rebel CT Logger

the following contains the details of the pinouts for Rebel CT Logger (RC-5-2) (INF 210 5/6/7/8)

The USB Connector

The USB Connector is a USB Series “B” Receptacle Interface.



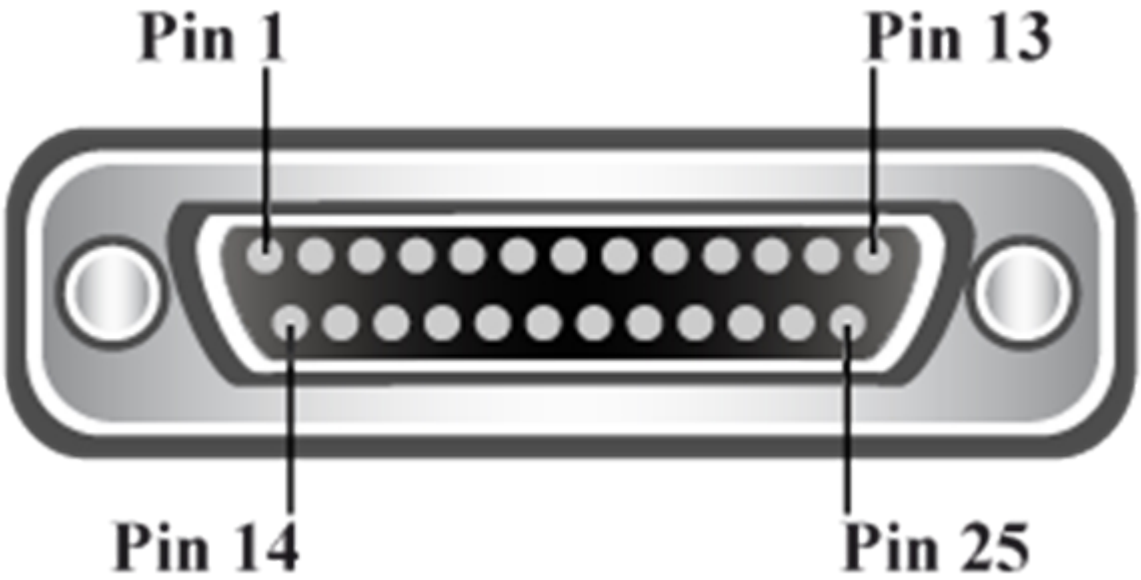
Pin No	Pin Function
Pin 1	VBUS USB supply voltage 5V
Pin 2	Data- line of USB, this signal utilises NRZI line coding

Pin 3	Data+ line of USB, this signal utilises NRZI line coding
Pin 4	Ground

> ⚠ **WARNING:**
>
> - Don't drop the Logger onto the USB Connector with a plug-in USB Cable.

The OBD & INST Connector

The OBD & INST Connector is a Male 25-pin Standard D Type Connector with nuts.



Pin No	Pin Function
Pin 1	Analog Input 3- do not apply voltage outside of the -10 to +10 V range
Pin 2	LIN 1
Pin 3	CAN/CAN FD Bus 3 Low signal
Pin 4	Analog Input 1 - do not apply voltages outside of the -10 to +10V range

Pin 5	Wake-Up pin to wake logger from sleep mode (for use, see Appendix 1)
Pin 6	CAN Bus 1 (Medium Speed Bus) Low Signal
Pin 7	CAN Bus 0 (High-Speed Bus) Low Signal
Pin 9	4.5-36V Supply Voltage
Pin 10	+4.5V Instrumentation Supply Voltage, ensure that the current drawn is not more than 100mA
Pin 11	Digital Input or Output 2 - Do not apply voltages outside of the 0 to +12V range when used as an input. When used as an Output, ensure that the current drawn is not more than 100mA. More information on the use of this pin can be found in Appendix 2 and 3
Pin 12	Digital Input or Output 0 - Do not apply voltages outside the 0 to +12V range when used as an input. When used as an Output, ensure that the current drawn is not more than 100mA. More information on the use of this pin can be found in Appendix 2 and 3
Pin 13	CAN/CAN FD Bus 2 (Instrumentation Bus) Low Signal
Pin 14	Analog Input 2 - - do not apply voltages outside of the -10 to +10V range
Pin 15	LIN 0
Pin 16	CAN/CAN FD Bus 3 High signal
Pin 17	Analog Input 0 - - do not apply voltages outside of the -10 to +10V range
Pin 18	Analog Ground
Pin 19	CAN Bus 1 (Medium Speed Bus) High Signal

Pin 20	CAN Bus 0 (High-Speed Bus) High Signal
Pin 21	Ground - e.g. to be connected to pin 5 of the OBDII Connector
Pin 22	Power Ground - e.g. to be connected to pin 4 of the OBDII Connector
Pin 23	Digital Input or Output 3 (can also be used as a switched power supply +Vd). Do not apply voltages outside of the 0 to +12V range when used as an input.
Pin 24	Digital Input or Output 1 - Do not apply voltages outside of the 0 to +12V range when used as an input. When used as an Output, ensure that the current drawn is not more than 100mA. More information on the use of this pin can

⚠ **WARNING:**

- Don't short circuit or overload any Digital I/O, e.g. If using Digital Input or Output 3 to the power supply to power a K-Box or Rebel Dash, do not connect more than 1 K-Box to this output and be careful that no short circuit occurs.
- Overloading (I > 100mA) of Pin 10 (+4.5V Instrumentation) will result in a drop in the output voltage.
- Each End of the CAN bus must be terminated with a 120 Ohm resistor across CAN H and CAN L, and The Logger has dip switches inside that may be turned on if it is at the end of a CAN bus to allow the bus to be terminated easily.

The GPS Connector

The Optional GPS Connector is a Male SMB Connector.

Pin No	Pin Function
Pin 1	Radio Frequency Signal Input
Pin 2	Ground

The GPRS Connector

The Optional GPRS Connector is a Male RP-SMA Connector.

Pin No	Pin Function
Pin 1	Radio Frequency Signal Input
Pin 2	Ground

The WiFi Connector

The Optional WiFi Connector is a Female RP-SMA Connector.

Pin No	Pin Function
Pin 1	Radio Frequency Signal Input
Pin 2	Ground

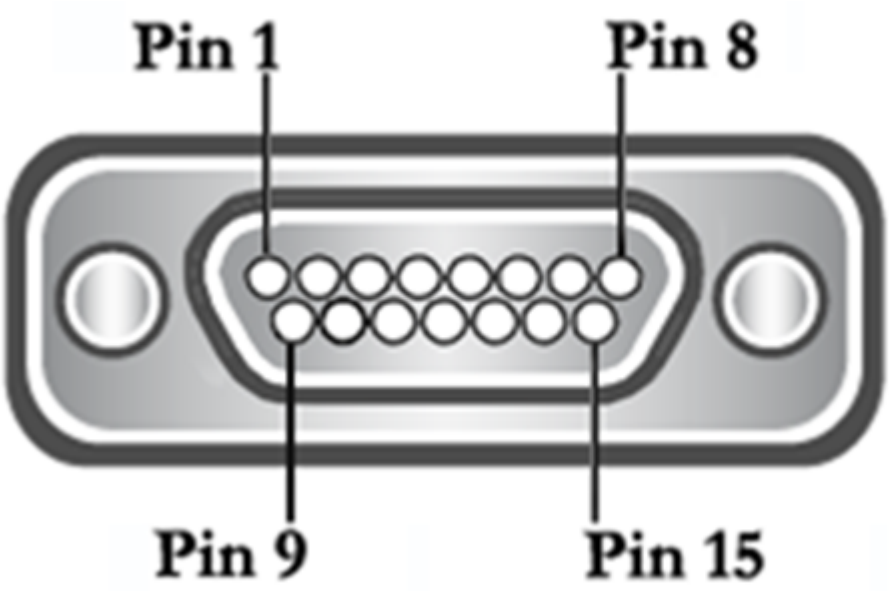
The GPS Connector

The Optional GPS Connector is a Male SMB Connector.

Pin No	Pin Function
Pin 1	Radio Frequency Signal Input
Pin 2	Ground

The FlexRay/LIN & Can Ext Connector

The Optional FlexRay Connector is a Male 15-pin 1.27mm Pitch Micro D Connector nut.



Pin No	Pin Function
Pin 1	CAN Bus 4 (Ext 1) Low Signal
Pin 2	CAN Bus 4 (Ext 1) High Signal
Pin 3	CAN Bus 5 (Ext 2) Low Signal
Pin 4	CAN Bus 5 (Ext 2) High Signal
Pin 5	CAN Bus 6 (Ext 3) Low Signal
Pin 6	CAN Bus 6 (Ext 3) High Signal
Pin 7	LIN (Local Interconnect Network) Bus
Pin 8	+Vin Supply Voltage
Pin 9	FlexRay Bus 1 BP Signal
Pin 10	FlexRay Bus 1 BM Signal
Pin 11	FlexRay Bus 2 BP Signal
Pin 12	FlexRay Bus 2 BM Signal
Pin 13	Ground for the FlexRay Buses
Pin 14	Ground for the CAN and LIN Buses
Pin 15	Power Ground

WARNING:

- The Connector needs to be adequately tightened to make a proper connection and ensure reliable operation.

Note:

- Pins not mentioned in the description table(s) are NC.