

User Guide

INF4204.1-Pinout





INF4204.1: Rebel Multi-Connect Cable (5 Lead)



Description:

This 230 mm breakout cable is supplied with each Rebel CT data logger making it suitable to connect devices that are compliant with the standard CIA 9 PIN D-Sub pinout directly to our data loggers.

The cable has one 25 Way D-Sub connector, which connects directly to the Rebel CT data logger and four 9 Way D-Sub connectors to connect up to the separate CAN buses as described here:

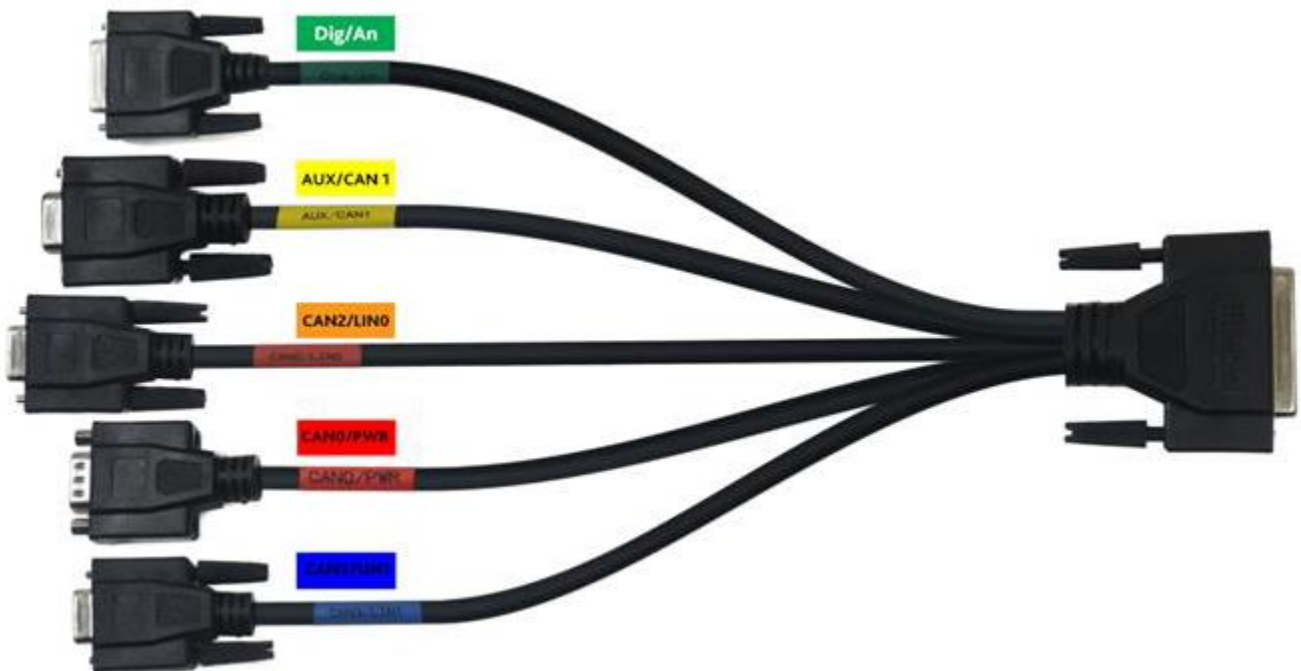
- POWER/CAN0 enables power and a CAN bus to be connected to the Rebel data logger. Type - 9 Way D-Sub (Plug)
- AUX/CAN 1 enables a CAN bus to be connected to the Rebel data logger and can be used to supply auxiliary power from the Rebel data loggers to other devices. Type - 9 Way D-Sub (Socket)
- CAN 2 Type - 9 Way D-Sub (Socket)
- CAN 3 Type - 9 Way D-Sub (Socket)

Additionally, a 15 Way D-Sub (Socket) connector enables easy connection to the data logger analog and digital pins.



Tech Specs:

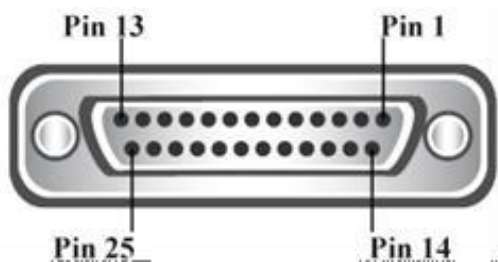
Cable Length	230mm
Cable Thickness	24 AWG 0.5 mm
Connector A	25-pin D-sub (DB25) socket, compatible with Rebel CT and Rebel LT data loggers
Connector B	9-pin D-sub (DB9) plug/nuts, pins compatible with CiA 303-1 (CAN 0 and Power)
Connector C	9-pin D-sub (DB9) socket, pins compatible with CiA 303-1 (CAN 1)
Connector D	9-pin D-sub (DB9) socket, pins compatible with CiA 303-1 (CAN 2)
Connector E	9-pin D-sub (DB9) socket, pins compatible with CiA 303-1 (CAN 3)
Connector F	15-pin D-sub (DB15) socket, digital and analog inputs
Temperature	Operating temperature: -20degC to +80degC
Weight	263 g
Colour	Black





Rebel Data Logger Connector

Female 25-pin standard D-Type connector with screws



Pin No	Pin Function
Pin 1	Analog Input 3 - do not apply voltages outside of the -10 to +10V range
Pin 2	LIN 1
Pin 3	CAN / CAN FD 3 L
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 8	K-Line (1 wire bus) of ISO 9141
Pin 9	4.5-36V Supply Voltage
Pin 10	+4.5V Instrumentation Supply Voltage, ensure that current draw is not more than 100mA
Pin 11	Digital Input or Output 2 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 12	Digital Input or Output 0 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on 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 3 H
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
Pin 22	Power Ground
Pin 23	Digital Input or Output 3 (can also be used as a switched power supply +Vd)
Pin 24	Digital Input or Output 1 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 25	CAN /CAN FD Bus 2 (Instrumentation Bus) High Signal



Warning

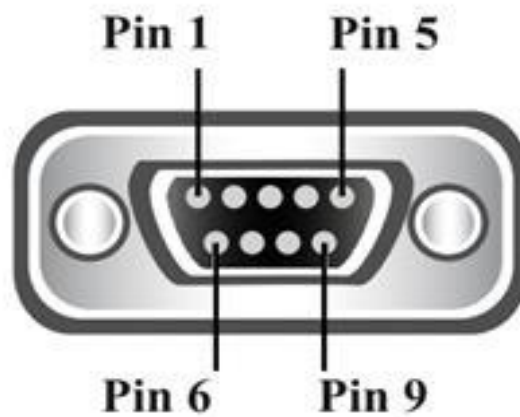
- Don't short circuit or overload any Digital I/O e.g. If using Digital Input or Output 3 to supply power to a K-Box or Rebel Dash, do not connect more than 1 K-Box to this output and be careful that no short circuit occurs.

Warning

- Don't short circuit or overload Pin 10 (+4.5V Instrumentation)

6.2 CAN0/PWR Connector

Male 9-pin standard D-type connector with nuts

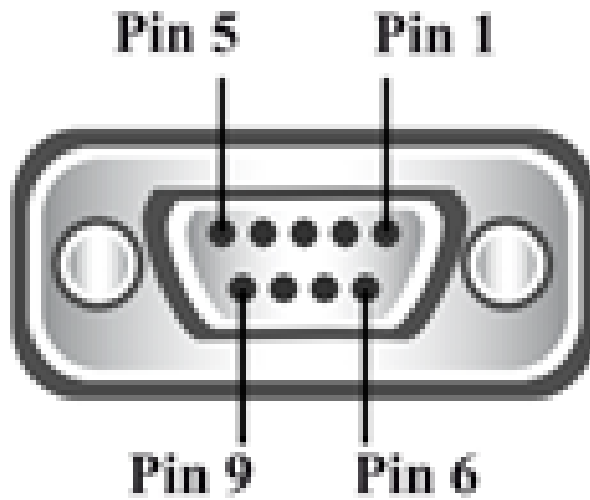


Pin No	Pin Function
Pin 1	CAN Bus 1 (Medium Speed Bus) Low Signal
Pin 2	CAN Bus 0 (High Speed Bus) Low Signal
Pin 3	Ground
Pin 4	K-Line (1 wire bus) of ISO 9141
Pin 5	Power Ground
Pin 7	CAN Bus 0 (High Speed Bus) High Signal
Pin 8	CAN Bus 1 (Medium Speed Bus) High Signal
Pin 9	4.5-36V Supply Voltage



AUX/CAN 1 Connector

Female 9-pin standard D-type connector with screws



Pin No	Pin Function
Pin 2	CAN Bus 1 (Medium Speed Bus) Low Signal
Pin 3	Ground
Pin 5	Power Ground
Pin 7	CAN Bus 1 (Medium Speed Bus) High Signal
Pin 9	Power Supply Switched

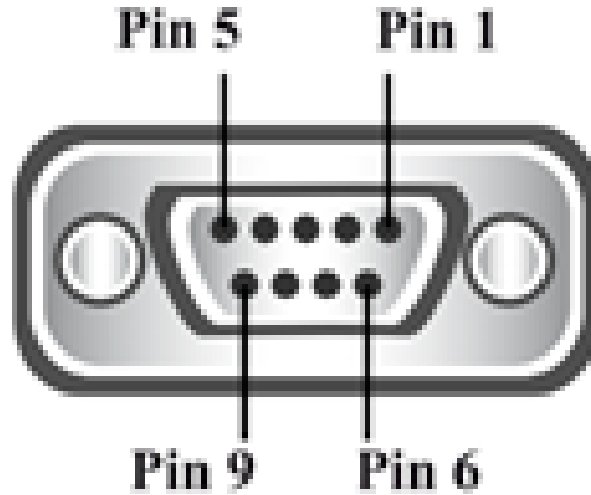
Warning

- Don't short circuit or overload Power Supply Switched e.g. do not connect more than 1 K-Box to this output and be careful that no short circuit occurs.



CAN 2/LIN 0 Connector

Female 9-pin standard D-type connector with screws

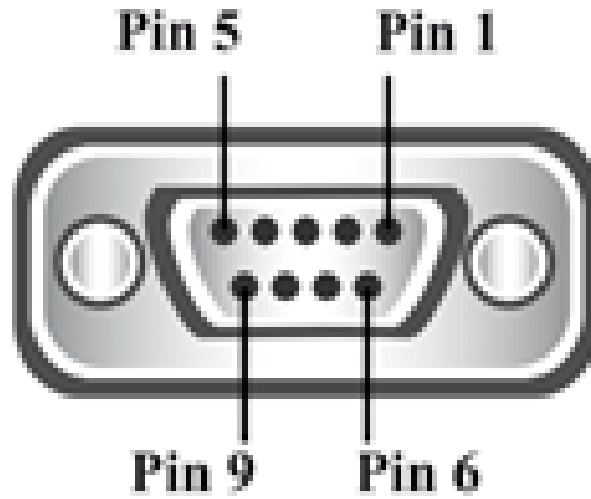


Pin No	Pin Function
Pin 1	LIN 0
Pin 2	CAN / CAN FD Bus 2 (Instrumentation Bus) Low Signal
Pin 3	Ground
Pin 5	Power Ground
Pin 7	CAN / CAN FD Bus 2 (Instrumentation Bus) High Signal
Pin 9	Digital Input or Output 3 (can also be used as a switched power supply +Vd). When used as an input do not apply voltages outside of the 0 to +12V range



CAN 3/LIN 1 Connector

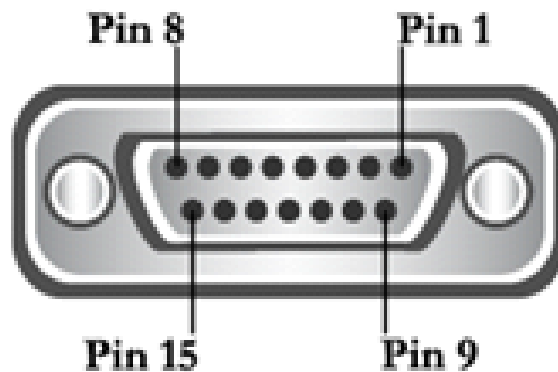
Female 9-pin standard D-type connector with screws



Pin No	Pin Function
Pin 1	LIN 1
Pin 2	CAN / CAN FD Bus 3 (Instrumentation Bus) Low Signal
Pin 3	Ground
Pin 5	Power Ground
Pin 7	CAN / CAN FD Bus 3 (Instrumentation Bus) High Signal
Pin 9	Digital Input or Output 3 (can also be used as a switched power supply +Vd). When used as an input do not apply voltages outside of the 0 to +12V range



Digital & Analog Connector



Pin No	Pin Function
Pin 2	Digital Input or Output 1 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 3	+4.5V Instrumentation Supply Voltage, ensure that current draw is not more than 100mA
Pin 4	Ground
Pin 6	Analog Ground
Pin 7	Analog Input 1 - do not apply voltages outside of the -10 to +10V range
Pin 8	Analog Input 3 - do not apply voltages outside of the -10 to +10V range
Pin 9	Digital Input or Output 0 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 10	Digital Input or Output 2 - When used as an input do not apply voltages outside of the 0 to +12V range, when used as an Output ensure that current draw is not more than 100mA. More information on use of this pin can be found in Appendix 2 and 3
Pin 11	Ground
Pin 13	Wake-Up pin to wake logger from sleep mode (for use see Appendix 1)
Pin 14	Analog Input 0 - do not apply voltages outside of the -10 to +10V range
Pin 15	Analog Input 2 - do not apply voltages outside of the -10 to +10V range

Warning

- Don't short circuit or overload any Digital I/O e.g. be careful that no short circuit occurs when using an I/O as an output.

Warning

- Don't short circuit or overload Pin 10 (+4.5V Instrumentation)

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