

AiM InfoTech

KTM – RC 390
From 2018

Release 1.00



ECU



1 Models and years

This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.

Supported models and years are:

- KTM – RC 390 from 2018

2 Wiring connection

These models feature a diagnostic CAN bus accessible through the grey KTM diagnostic female connector, located under the seat bike.

For this installation refer to the following pinout of the "KTM diagnostic" female connector and connection table.



KTM Diagnostic connector

White
Black/Yellow
Blu
Yellow

Function

V battery
Ground
CAN High
CAN Low

AiM Cable

V Batt
GND
CAN +
CAN -

AiM color Cable

Red
Black
White
Blu

3

Race Studio configuration

Before connecting the AiM device to the ECU, set all functions using AiM software Race Studio. The parameters to set in the device configuration are:

- ECU manufacturer: **KTM**
- ECU Model: **390_CAN_OBD**

4

"KTM – 390_CAN_OBD" protocol

Channels received by AiM devices configured with "KTM – 390_CAN_OBD" protocol are:

| CHANNEL NAME | FUNCTION |
|---------------------|----------------------------|
| RPM | Engine RPM |
| GEAR | Engaged gear |
| OBDII SPD | Vehicle speed |
| OBDII ECT | Engine coolant temperature |
| OBDII IAT | Intake air temperature |
| OBDII MAP | Manifold air pressure |
| OBDII TPS | Throttle position sensor |

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.