

AIM Infotech

KTM X Bow

Release 1.01

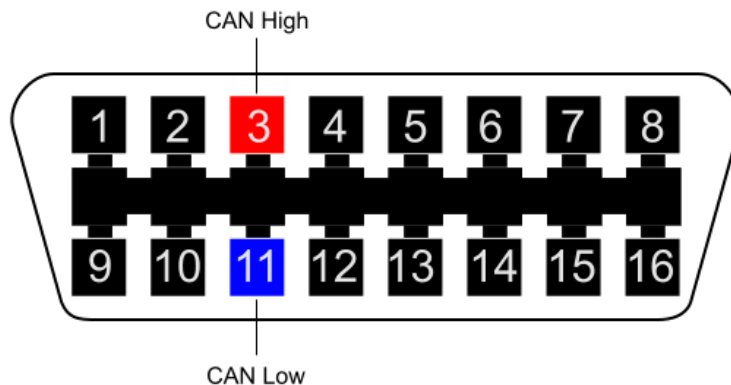


This tutorial explains how to connect KTM X-Bow ECU to AiM loggers using the CAN Bus.
For any further information concerning ECU firmware / software settings and/or upgrading it is always recommended to address to the ECU dealer.

1

Wiring connection

KTM X-Bow ECU features a bus communication protocol based on CAN on the OBDII plug placed under the steering wheel; its pinout is shown below.



OBDII connector pin	Function	AiM cable
3	CAN High	CAN+
11	CAN Low	CAN-

2

AIM Logger configuration

Once the ECU connected to the logger, this last one is to be configured as connected to that ECU.

Run Race Studio 2 software and follow this path:

- Device Configuration → Select the device you are using;
- Select the configuration or press "New" to create a new one;
- select ECU manufacturer "KTM" and ECU Model "X-BOW";
- transmit the configuration to the device pressing "Transmit".

2

Available channels

Channels received by AiM loggers connected to "KTM" "X-BOW" are:

ID	CHANNEL NAME	FUNCTION
ECU_1	KTM_RPM	RPM
ECU_2	KTM_WH_SPD_FL	Front left wheel speed
ECU_3	KTM_WH_SPD_FR	Front right wheel speed
ECU_4	KTM_WH_SPD_RL	Rear left wheel speed
ECU_5	KTM_WH_SPD_RR	Rear right wheel speed
ECU_6	KTM_PPS1	Pedal position sensor 1
ECU_7	KTM_PPS2	Pedal position sensor 2
ECU_8	KTM_TPS	Throttle position sensor
ECU_9	KTM_WATER_TEMP	Water temperature
ECU_10	KTM_INTK_AIR_T	Intake air temperature
ECU_11	KTM_BRAKE_SW	Brake switch
ECU_12	KTM_BOOST	Boost
ECU_13	KTM_GEAR	Engaged gear
ECU_14	KTM_GBOX_TEMP	Gear box temperature
ECU_15	KTM_GBOX_POTI	Gear box potentiometer
ECU_16	KTM_GBOX_TVOLT	Gear box temperature voltage
ECU_17	KTM_CLUTCH_SW	Clutch switch
ECU_18	KTM_TORQUE	Torque
ECU_19	KTM_TORQUE_LOSS	Torque loss
ECU_20	KTM_TORQUE_DES	Desired torque

Please note: channels listed above are those polled by AiM devices. They may or may not come across in the data stream depending on models. RPM, TPS,ECT and speed are generally available.