

AiM InfoTech

Ligier – JS2 R
From 2018

Release 1.00



ECU



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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:

JS2 R

from 2018

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Wiring connection

These models feature a communication protocol based on CAN, accessible through the 4 pins DTM06-4S female connector placed left behind the pilot seat. For this installation refer to the following pinout of DTM connector and connection table.



"DTM06 – 4S" conn. pin	Function	AiM cable	AiM color cable
1	V Battery	V Batt	Red
2	Ground	GND	Black
3	CAN Low	CAN -	Blue
4	CAN High	CAN +	White

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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: **LIGIER**
- ECU Model: **JS2R** (Only RS3)

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"LIGIER – JS2R" protocol

Channels received by AiM devices configured with "LIGIER – JS2R" protocol are:

CHANNEL NAME	FUNCTION
RPM	Engine RPM
PPS	Pedal position sensor
Throttle	Throttle position sensor
VehicleSpeed	Vehicle speed
FRSpeed	Front right wheel speed
FLSpeed	Front left wheel speed
RLSpeed	Rear left wheel speed
RRSpeed	Rear right wheel speed
Gear	Engaged gear
SWA	Steering wheel angle position
WaterT	Water temperature
AirT	Intake air temperature
OilT	Oil temperature
OilP	Oil pressure



FrontBrake	Front brake pressure
RearBrake	Rear brake pressure
FuelP	Fuel pressure
MAP	Manifold air pressure
GearboxP	Gearbox pressure
RRDamper	Rear right position damper
FLDamper	Front left position damper
RLDamper	Rear left position damper
FRDamper	Front right position damper
VVTEXTarg	Variable valve timing exhaust target
VVTEX2	Variable valve timing exhaust 2
VVTEX1	Variable valve timing exhaust 1
VVTInTarg	Variable valve timing inlet target
VVTIn2	Variable valve timing inlet 2
VVTIn1	Variable valve timing inlet 1
PredictLife	Predictive time
TotalTime	Total time
OnLoadTime	Load time
Distance	Distance
TotalKm	Total km
VBat	Battery voltage
VGear	Voltage gear
FuelCons	Fuel consumption
Lambda1	Lambda value 1
Lambda2	Lambda value 2
IgnFinal	Ignition final
InjTimeLeft	Left injection time
InjTimeRight	Right injection time
PitSwitch	Pit switch
Beacon	Beacon
Lap	Lap number for SmatyCam
LapTime	Lap time for SmartyCam



BestTime	Best lap time for SmartyCam
Gap	Number

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.