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AiM InfoTech

Marelli
FIA – TCR
from 2020

Release 1.00

ECU

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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:

- TCR Cupra Leon from 2020 onwards

2 Wiring connection

These models feature a specific protocol based on CAN, accessible through the DTM04-6P female connector, located in the right corner at the base of the A pillar/ passenger side. For this installation refer to the following pinout of the DTM connector and its connection table:

DTM04-6P connector pin	Function	AiM cable	AiM color cable
1	Battery voltage	V Batt	Red
2	Ground	GND	Black
3	CAN High	CAN +	White
4	CAN Low	CAN -	Blue

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: **MARELLI**
- ECU Model: **FIA_TCR_Mar_SC** (Only RS3)

4
"MARELLI – FIA_TCR_Mar_SC" protocol.

Channels received by AiM devices configured with "MARELLI – FIA_TCR_Mar_SC" protocol are:

CHANNEL NAME	FUNCTION
Team RPM	Engine RPM
Team Gear	Engaged gear
Team Wsp FL	Front left wheel speed
Team Wsp FR	Front right wheel speed
Team Wsp RL	Rear left wheel speed
Team Wsp RR	Rear right wheel speed
Team Acc X	Inline accelerometer
Team Acc Y	Lateral accelerometer
Team Pbrake F	Front brake pressure
Team Pbrake R	Rear brake pressure
Team Steering	Steering position sensor
Team AnaPedal	Pedal 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.