

AiM InfoTech

HYUNDAI
i20N Rally2 BC3N
from 2021

Release 1.00



ECU



1 Models and years

This document explains how to connect AiM devices to the vehicle CAN data stream.
Supported models and years are:

- Hyundai Motorsport i20N (BC3N) Rally2 from 2021

Warning: when connecting an AiM device to the vehicle CANbus, check if the Promoter and the Federation regulations allow the use of a GPS module to be connected at the same time

2 Wiring connection

The CAN driver developed to communicate with this vehicle, is accessible through the **Main_24-Camera** connector, a Deutsch DTM06-6P located on the central tunnel next to the fuel tank wall.



DTM06-6P Pin	Pin function	AiM cable
1	+12V always On	See note
2	+12V only Stage Mode	See note
3	Ground	GND
4	CAN High	CAN +
5	CAN Low	CAN -
6	+12V Power Supply	See note

Technical note: select the proper power supply, according to the AiM device in use. Note, the SmartyCam has **Vb pin 3** used for **wake up** and **Vbext pin 5** used for **power supply**.

It is strongly recommended to refer to a skilled technician to perform this kind of installation.
Before connecting the power supply, check with the car manufacturer the current flow (Ampere) the power line can deliver.

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Race Studio configuration

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

- ECU manufacturer: **HYUNDAI**
- ECU Model: **I20N Rally2 BC3N** (Only RS3)

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“HYUNDAI – I20N Rally2 BC3N” Protocol

Channels received by AiM devices configured with "HYUNDAI – I20N Rally2 BC3N" protocol are:

CHANNEL NAME	FUNCTION
RPM ACVCam	RPM (specific for video recording activation)
Gear Position	Engaged gear
Vehicle Speed	Vehicle speed
Front Brk Press	Front brake pressure
Rear Brk Press	Rear brake pressure
Hand Brake Press	Handbrake pressure
Steering Angle	Steering wheel angle
Throttle Pedal	Throttle pedal position
StDrvMode	Status driving mode

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.