

AiM Infotech

AUDI

A3, A4, A5, A6, A8, TT, R8

Release 1.00





This tutorial explains how to connect AUDI cars to AiM devices.

1

Car models and years

Supported car models and years are:

• Audi A3	2 nd series	2003-2012
• Audi A3	3 rd series	2013
• Audi A4	3 rd series	2005-2008
• Audi A4	4 th series	from 2008
• Audi A5		from 2007
• Audi A6	3 rd series	2004-2011
• Audi A6	4 th series	from 2011
• Audi A8	2 nd series	from 2002
• Audi TT	1 st series	2001-2006
• Audi TT	2 nd series	from 2006
• Audi R8		from 2008

2

CAN bus connection

Audi cars communicate with AiM devices through the CAN Bus on the ECU.

CAN connection cables can be found in different positions: behind the instrument cluster, near the steering column, behind the fuse box or the glove box inside the main wiring loom. Regardless of the stock ECU installed on your car, colours of the cables you need to connect to AiM devices are always the same, they are twisted and here below they are indicated.

Pin function	Audi ECU cable colour	AIM cable label
CAN High	Orange/Black	CAN+
CAN Low	Orange/Brown	CAN-

2

AiM Logger configuration

Once the ECU connected to the logger set up the logger as follows:

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 “Bosch” and ECU Model “Audi”
- transmit the configuration to the device pressing “Transmit”.

4

Available channels

Channels received by AiM devices connected to Audi ECU are.

ID	CHANNEL NAME	FUNCTION
ECU_1	AUDI_RPM	RPM
ECU_2	AUDI_SPEED1	Vehicle speed
ECU_3	AUDI_WATERTEMP	Engine cooling temperature
ECU_4	AUDI_ENGINEMOMENT	Engine Torque
ECU_5	AUDI_AIRTEMP	Intake air temperature
ECU_6	AUDI_GASPERC	Pedal position
ECU_7	AUDI_BRAKEPRESS	Brake pressure
ECU_8	AUDI_SPEED2	Vehicle speed
ECU_9	AUDI_SPEEDDASH	Speed
ECU_10	AUDI_ACCLAT	Lateral acceleration
ECU_11	AUDI_STEERMOMENT	Steering Torque
ECU_12	AUDI_ATMTEMP	Atmospheric Temperature
ECU_13	AUDI_OILTEMP	Oil Temperature
ECU_14	AUDI_FRLF_SPEED	Front left wheel speed



ECU_15	AUDI_FRRG_SPEED	Front right wheel Speed
ECU_16	AUDI_RRLF_SPEED	Rear left wheel Speed
ECU_17	AUDI_RRRG_SPEED	Rear right wheel Speed
ECU_18	AUDI_YAWRATE	Gyroscope
ECU_19	AUDI_STEERSPEED	Steering speed
ECU_20	AUDI_STEERANGLE	Steering angle
ECU_21	AUDI_BRAKE	Brake
ECU_22	AUDI_FUEL	Fuel level
ECU_23	AUDI_GEAR	Engaged gear
ECU_24	AUDI_ENGOILT	Engine oil temperature
ECU_25	AUDI_TPS	Throttle position
ECU_26	AUDI_CLUTCH	Switch Clutch
ECU_27	AUDI_BOOST_PRESS	Boost pressure
ECU_28	AUDI_ENGINE_MOMENT	Engine torque
ECU_29	AUDI_SHIFTING_ACTIVE	Shift check
ECU_30	AUDI_TIP_TRONIK_DW	Tiptronic down
ECU_31	AUDI_TIP_TRONIK_UP	Tiptronic up