



AiM Infotech

## Pectel SQ6 for Formula Renault 2000 ECU

Release 1.02

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ECU



This tutorial explains how to connect Pectel SQ6 for Formula Renault 2000 ECU to AiM devices. Supported years are:

- Pectel SQ6 for Formula Renault 2000 from 2011 onward

## 1 Wiring connection

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Pectel SQ6 for Formula Renault 2000 from 2011 ECU features a data transmission bus based on CAN. To reach it use the 7 pins video connector you find under the driver seat. Here below are connector pinout and connection table.



Front connector pin	Pin function	AiM cable
4	CAN High	CAN+
3	CAN Low	CAN-

## 2 AiM device configuration

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Before connecting the ECU to AiM device set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "Pectel"
- ECU Model "SQ6\_FR2000"

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## Available channels

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Channels received by AiM devices connected to "Pectel" "SQ6\_FR2000" protocol are:

<b>ID</b>	<b>CHANNEL NAME</b>	<b>FUNCTION</b>
ECU_1	FR_RPM	RPM
ECU_2	FR_VEH_SPEED	Vehicle Speed
ECU_3	FR_FL_SPEED	Front Left wheel speed
ECU_4	FR_FR_SPEED	Front Right wheel speed
ECU_5	FR_TPS	Throttle position sensor
ECU_6	FR_PPS	Pedal position sensor
ECU_7	FR_GEAR	Engaged gear
ECU_8	FR_BRAKE_F	Front brake sensor
ECU_9	FR_BRAKE_R	Rear brake sensor
ECU_10	FR_BRAKE_BAL	Brake balance
ECU_11	FR_MAP	Manifold air pressure
ECU_12	FR_OIL_PRESS	Oil pressure
ECU_13	FR_FUEL_PRESS	Fuel pressure
ECU_14	FR_IAT	Intake air temperature
ECU_15	FR_ECT	Engine cooling temperature
ECU_16	FR_OILT	Oil temperature
ECU_17	FR_BATT_VOLT	Battery supply
ECU_18	FR_STEER_ANGLE	Steering angle
ECU_19	FR_ACC_Y	Vertical accelerometer
ECU_20	FR_ACC_X	Horizontal accelerometer
ECU_21	FR_LAMBDA1	Lambda Value 1
ECU_22	FR_LAMBDA2	Lambda Value 2
ECU_23	FR_ROLL_mm	Rolling value in mm
ECU_24	FR_SUSP_F_mm	Front suspension in mm
ECU_25	FR_SUSP_LR_mm	Rear left suspension in mm
ECU_26	FR_SUSP_RR_mm	Rear right suspension in mm