

AiM Infotech

Pectel T2/T6 ECUs

Release 1.02



ECU



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Supported models

This document explains how to connect AiM devices to the Engine Control Unit (ECU) datastream. Supported models are:

- Pectel T2
- Pectel T6

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Software configuration

For Pectel T2 and T6 ECUs to correctly communicate with AiM devices it is necessary to set them up using the dedicated Pectel software.

To set the ECU follow these steps:

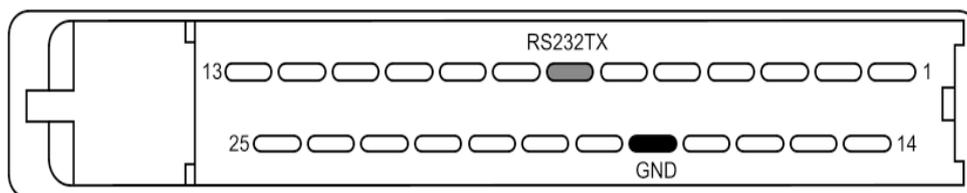
- connect Pectel T6 to your PC
- run DESCPro software
- select "SERIAL" at start up
- choose "COM" port
- click "ON-LINE"
- the software reads the ECU configuration (called "MAPS")
- when finished press [**Menu>>**] top right on the screen and select [**software Setup**];
- select [**Datalogging and serial Cooms**] with arrow-keys and press return (or double click with mouse pointer)
- the default mode should be [**PC**], press [**Return**] and a dialogue window appears
- choose [**STACK**] and press return
- the new configuration needs to be transmitted to the ECU: click [**File>> program current maps into ECU flash**]
- confirm the operation when prompted
- quit DESCPro software
- ECU is ready to communicate with AIM devices

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Wiring connection

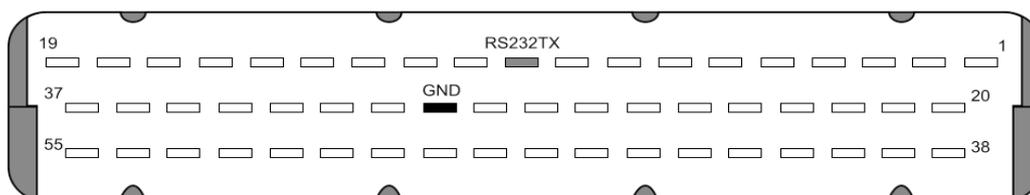
For Pectel T2 and T6 ECUs, it is possible to connect to AiM devices through the front male connectors. Here below you find each ECU connector pinout and connection table.

Pectel T2 ECU



Front connector pin	Pin function	AiM cable
7	RS232TX	RS232RX/ECU RS232TX
18	GND	GND

Pectel T6 ECU



Front connector pin	Pin function	AiM cable
10	RS232TX	RS232RX/ECU RS232TX
30	GND	GND

Please note:

AiM wiring harnesses supplied after September 2018 have the following labels:

ECU RS232TX (white) to be connected to **ECU TX** pin

ECU RS232RX (blue) to be connected to **ECU RX** pin (if indicated in the connection table above)

AiM wiring harnesses supplied before September 2018 have the following labels:

RS232RX (white) to be connected to **ECU TX** pin

RS232TX (blue) to be connected to **ECU RX** pin (if indicated in the connection table above)

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Race Studio configuration

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

- ECU manufacturer: **Pectel**
- ECU Model: **T_2/T_6**

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“Pectel – T_2/T_6” protocol

Channels received by AiM devices configured with “Pectel – T_2/T_6” protocol are:

CHANNEL NAME	FUNCTION
PECTEL RPM	RPM
PECTEL WHEELSPD	Wheel speed
PECTEL OILPRESS	Oil pressure
PECTEL OILTEMP	Oil temperature
PECTEL WATERTEMP	Engine Coolant temperature
PECTEL FUELPRESS	Fuel pressure
PECTEL BATTVOLT	Battery voltage
PECTEL THROTANG	Throttle angle
PECTEL MANIFPRESS	Manifold air pressure
PECTEL AIRCHARGETEMP	Intake air temperature
PECTEL EXHTEMP	Exhausted gas temperature
PECTEL LAMBDA	Lambda value
PECTEL FUELTEMP	Fuel temperature
PECTEL GEAR	Engaged gear