P-I-P LOTUS ECU - HARDWARE
SSC P-I-P LOTUS ECU - FAQ

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[Back to FAQ list](#)

Hardware components:

- ECU enclosure CNC machined from billet aluminium with an hermetic 'O' ring seal.
- Aluminium Data Port plate providing in cabin connectivity for USB tuning, CAN network, 2 Serial Data ports - Wideband lambda control, Data logging, a headphone jack for the cars knock sensor and the Traction Controller.
- ECU to in-cabin Data Port loom.
- USB cable to connect the Data Port to a laptop.

Frequently Asked Questions:

01. **Q**: Can analogue and digital sensors be connected to the ECU?

.......**A**: Various analogue sensors must be connected for the ECU to work correctly. There are no spare analogue inputs. There is a spare digital input available at the in cabin Data Port, but I'm not aware of any customers using it.

02. **Q**: I wanted to know the AUX I/O pinouts for the DBW PIP ECU.

.......**A:** The 4-pin engine bay connector is for a Lotus standard TMAP sensor (which comes with the SSC supercharger kit), or for separate MAP and air temp sensors.

Black = Signal GND

Grey = +5V

Orange = MAP

Brown = Air Temp

The 3-pin connector is for a flex fuel sensor (also called a Fuel Composition Sensor).

Red = +12V

Black = Power GND

Yellow = Signal

The Aux Out connector represents Aux 15 in WARI and can be used to switch something on/off based on any Aux output type in WARI.

Red = +12V

Black = Switched GND

The PWM connector can supply a Pulse Width Modulated signal, most likely a 5th injector or a turbocharger wastegate solenoid. It is set by the Wastegate function in WARI.

Red = +12V

White = Switched GND

03. Q: Where is a Data logger connected for a dash mounted display?

.......**A:** When installing a dash/logger such as the MoTeC CDL3, run a shielded serial cable under the sill trim and behind the driver's seat. It connects to the RS-232 Serial jack on the Data Port by means of a 2.5mm stereo plug.

04. Q: Do the Data loggers that the ECU supports have displays or do I need to connect a Laptop to view?

.......**A:** You need a PC to view the logged data, e.g. using the free 'i2 Standard' software provided by MoTeC.

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Lotus, ECU for Exige, ECU for Elise, SSC EMS, SSC PIP ECU, EMS for Lotus, EMS for Exige, EMS for Elise, Lotus DBW EMS, Exige DBW EMS, Elise DBW EMS, DBW EMS for Lotus, DBW EMS for Exige, DBW EMS for Elise, Electronic throttle ECU for Lotus, Electronic throttle ECU for Exige, Electronic throttle ECU for Elise, Drive by wire ECU for Lotus, Drive by wire ECU for Exige, Drive by wire ECU for Elise, Engine management for Exige, Engine management for Elise, Engine control for Exige, Engine control for Elise, Lotus ECU, Exige ECU, Elise ECU, Lotus Electronic throttle ECU, Exige electronic throttle ECU, Elise electronic throttle ECU, Lotus ECM, Exige ECM, Elise ECM, ECM for Lotus, ECM for Exige, ECM for Elise, EMS for Lotus, EMS for Exige, EMS for Elise,

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