

Callisto Specifications



Callisto is a universal controller that can be customised by Spitronics for ECU, TCU TxW etc. In some cases, not all the drivers may be installed if it is dedicated for a certain application. On TCU applications there is Diodes and Resistors installed to simplify harnesses. Firmware is loaded at purchase and cannot be changed as the hardware and firmware is matched.

See Below the different Hardware Specifications.

ECU Application

Power Supply

- 12V Ignition power 100mA, filtered on board
- 12V Ignition battery power 100mA, filtered on board
- 12V Driver Power up to 14 amps depending on power used by items driven.
- 2.5mm² Earth Strap for internal negative drivers
- 1.5mm² Battery Earth for Electronic components

Fixed Inputs

- 2x Digital Inputs for Magnetic, Hall or Optic sensors. (Jumper selectable)
- 1x Digital Input for Dual Map, FlatShift or RapidFire
- 4x Analog Input 0-5V Map, TPS, POT and Lambda
- 1x Built in 1.15 Bar Altitude Sensor input 0-5V (Optional. Sensor installed at purchase)
- 1x Water Temperature Input 1, 2, and 2.5K NTC Resistance Sensor Selectable
- 1x Air Temperature Input 1, 2, 2.5, and 10K NTC Resistance Sensor Selectable
- 1x UART Port for Spitronics USB Cable Interface

Fixed Outputs

- 12x 20A 400V HV Negative Drivers for Coils/Injectors/GP Outputs - Ground and Floating output
- 6x 6A 36V Positive Drivers for Smart Coils and GP Outputs +12V and Floating
- 2x 9A 100V Negative Drivers for Relay and RPM Output - Ground and Floating output

Communication

- Software UART Connection via USB2 converter cable
- Bootloader installed for firmware programming at purchase via the USB cable

Dimensions

Size 144 x 68mm x 22mm

Weight 187g non-resin filled *

5 x Connector Type Plastic Molex 12, 10, 8, 6, 4

* This unit can be resin filled. Weight will increase depending on the type of resin.

TCU Application

Power Supply

12V Ignition power 100mA, filtered on board

12V Ignition battery power 100mA, filtered on board

12V Driver Power up to 14 amps depending on power used by items driven.

2.5mm² Earth Strap for internal negative drivers

1.5mm² Battery Earth for Electronic components

Fixed Inputs

2x Digital Inputs for Magnetic, Hall or Optic sensors. (Jumper selectable) RPM and Speed

2x Digital Inputs for Tiptronic Switches

3x Analog Input 0-5V 4xMap Switch, TPS, Shifter Switch

1x Oil Temperature Input NTC Resistance Sensor Custom calibrated by Firmware type

1x Digital Input Low Range

1x UART Port for Spitronics USB Cable Interface

Fixed Outputs

10 (+2 Optional) x 20A 400V HV Negative Drivers for Coils/Injectors/GP Outputs - Ground and Floating output plus Free-Wheel Diode

4 (+2 Optional) x 6A 36V Positive Drivers for Smart Coils and GP Outputs +12V and Floating plus Free-Wheel Diode

2x 9A 100V Negative Drivers for Relay and Speed Output - Ground and Floating output

Communication

Software UART Connection via USB2 converter cable

Bootloader installed for firmware programming at purchase via the USB cable

Dimensions

Size 144 x 68mm x 22mm

Weight 187g non-resin filled *

5 x Connector Type Plastic Molex 12, 10, 8, 6, 4

* This unit can be resin filled. Weight will increase depending on the type of resin.

TxW Application

Power Supply

12V Ignition power 100mA, filtered on board

12V Ignition battery power 100mA, filtered on board

12V Driver Power up to 14 amps depending on power used by items driven.

2.5mm² Earth Strap for internal negative drivers

1.5mm² Battery Earth for Electronic components

Fixed Inputs

1x Digital Inputs for Magnetic, Hall or Optic sensors. (Jumper selectable) RPM

3x Analog Input 0-5V Throttle TPS, Pedal TPS Water Temperature

1x UART Port for Spitronics USB Cable Interface

Fixed Outputs

2 (+2 Optional) x 20A 400V HV Negative Drivers for Coils/Injectors/GP Outputs - Ground and Floating output plus Free-Wheel Diode

3 (+2 Optional) x 6A 36V Positive Drivers for Smart Coils and GP Outputs +12V and Floating plus Free-Wheel Diode

Communication

Software UART Connection via USB2 converter cable

Bootloader installed for firmware programming at purchase via the USB cable

Dimensions

Size 144 x 68mm x 22mm

Weight 187g non-resin filled *

5 x Connector Type Plastic Molex 12, 8, 6

* This unit can be resin filled. Weight will increase depending on the type of resin.