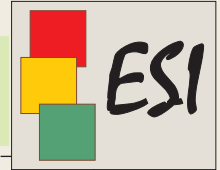
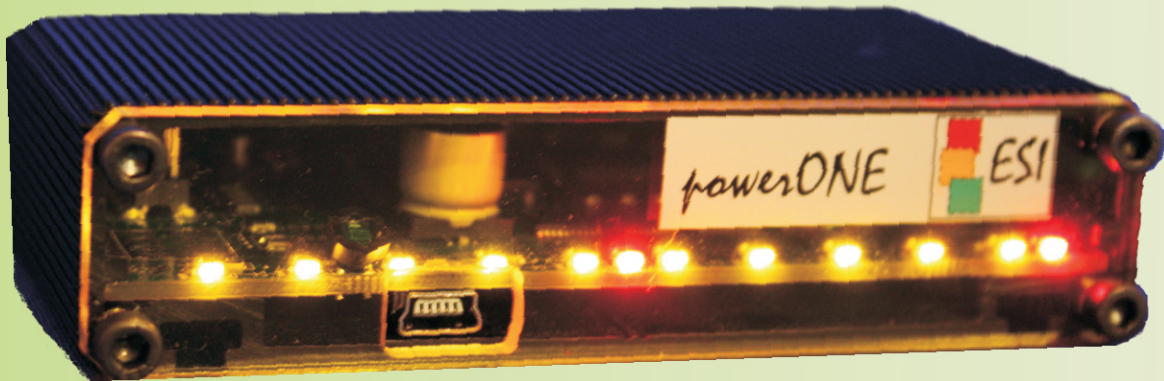


powerONE



## Chassis Controller and Data Logger

- ◆ Logic Controller with 8 GPIOs (General Purpose Input/Outputs)
- ◆ Optimized for automotive use with RPM and CANbus inputs
- ◆ Ships with powerTWO application designer
- ◆ Set up as an 8-channel data-logger
- ◆ Fast - 5 millisecond response to input changes



### Features

- powerONE senses RPMs, 12V analog inputs, 12V logic inputs, frequency inputs and CANbus data
- powerONE drives solenoids, relays and logic directly, either DC or proportionally by PWM outputs
- Set up from supplied sample applications and design any new functions with powerTWO designer
- All inputs and outputs are static and mis-connection protected

### For the Installer

- One product for any control or monitoring application.
- Rugged 4" x 4½" x 1", 8 oz. package, compact and bike-friendly
- Universal mount – bottom slots accept #4 / M4 nuts or T-bolts
- Power input from 5.5 to 30 VDC
- Screw-terminal blocks for all GPIO connections
- USB connect for configuration, monitoring and data recording
- Can be powered from USB for setup and test
- Print wiring labels onto standard label-stock from powerTWO

**NEW!! - Ask about powerONE WIFI.**

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powerTWO  
for setup,  
logging and  
monitoring

### CANbus

Acquire any CANbus sensor-data.  
Use any data as control inputs, in the same way as gauge inputs acquired by GPIOs.

### Rev-Limiting

Set a rev limit to any precision, without pills or plugs.  
Select an LED indicator for the limiter, or use an array of LEDs as a tachometer / shift light.

### Critical-Health Monitoring

Monitor any gauge or CANbus input and set multiple threshold values.  
Shut down an ECU or fuel-system on a very-bad input, such as zero oil-pressure, or set a limp-home rev-limit for something such as high oil-temperature.  
Add an LED indicator to any of these.

### Precision Control

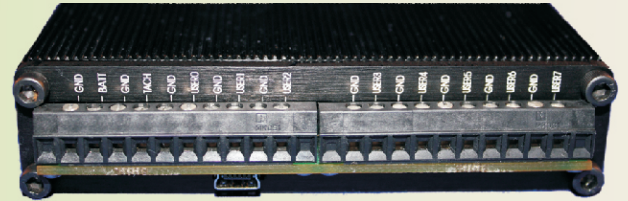
Manage fan or pump speed or duty-cycle according to coolant temperature.  
Set up an air-shifter by gear and RPM.  
Run proportional control on nitrous valves with an RPM-set spray profile for each gear.  
Do the same for a clutch manager.  
Wire dashboard switches to any I/O to provide driver control.

### LEDs

Assign any of the 10 Yellow and 2 Red LEDs as:  
\*Idiot-lights; out-of-range inputs  
\*Shift-lights; left-to-right, outer-to-center  
\*Control indicators; fan-on, rev-limiting, neutral selected, etc.

### 8 GPIOs plus a dedicated RPM Input

- \*0 to 17V analog inputs
- \*0.5 Hz to 10 kHz frequency inputs
- \*12V control logic inputs and outputs
- \*500 to 20,000 RPMs for 1 to 12 cylinders
- \*Modulated outputs from 1 to 3000 Hz
- \*Power FET outputs, 3 A actuation and 1.85 A sustain



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### Monitoring

Connect to a laptop USB-port and watch the realtime display of any GPIO, RPM or CANbus data.

### Recording

Record that same data directly to a laptop for later display or examination in a spreadsheet.

### Logging

Log selected data to onboard memory and recover it to a laptop for display or examination.

### Caution

Great care is required in making control connections to ECU, fuel-injection or brake systems. Consult a professional for advice.