



RT93

Vehicle Master Controller

Product Highlights

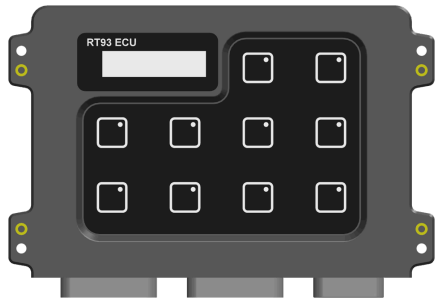
- Vehicle Master Controller with two independent CANbus
- IC & Battery Powered Vehicles
- High I/O count...All types...High Side Digital Outputs, Analog, PWM, Digital Inputs, programmable I/O
- Optional: Embedded EZcal GO

The **RT93** Electronic Control Module provides full functionality for control of an AWP vehicle, integrated includes: display (with EZcal functionality), 10 switches, 14 indicators, tilt sensor, buzzer/alarm. Allows for complete machine control including overload and automatic outrigger functions.

Its built-in I/O may be expanded with additional CAN-connected modules to create a complete control system for any machine while reducing wiring.

Examples of complete RT93 - based **Trionic** Control Systems include:

- **RT93** alone for IC RT scissor (J1939 ready)
- **RT93** + P600 for a 48V RT scissor with hydraulic drive
- **RT93** + P442 + P600 + DAC483 for a 48V with electric AC drive



TRIONIC
vehicle controls

General Features

- Provides protected high side outputs with current measure diagnostics
- Provides PWM outputs capable of Valve Current Control Mode (VCCM)
- Provides fail-safe high side outputs
- Integral vehicle tilt sensor, buzzer, display, and operator controls
- Two independent CANbus interfaces
- “EZcal” integrated for calibration, adjustments, and diagnostics
- “FLASH” memory allows configuration to specific customer needs
- Failsafe functionality to comply with EN 954-3 and EN280

Technical Data

| | | | |
|--------------------------------|---|---------------------|--|
| Power Supply | 12/24V | | 8 to 33 Vdc |
| High Side Output | 4 | protected | |
| “Failsafe” Outputs (high side) | 36 | protected | series-wired separately controlled drivers (x12 PWM) |
| 0-5V Output | 1 | protected | |
| LED Indicators | 10 | | Integrated on front panel (x10 customizable) |
| Positive Digital Inputs | 35 | 1.25K Ω imp. | x5 RPM counters, x10 Integrated switches |
| Negative Digital Input | 3 | 1.25K Ω imp. | For chassis grounded sensor and RPM counters |
| Analog Inputs | 8 | protected | 0 to 5 V and 0 to 10v compatible (x3 safe) |
| Internal Tilt Sensor | +/- 0 to 10° | $\sqrt{(x^2+y^2)}$ | |
| Internal Buzzer | 100dB | | |
| Water Proof | IP66 | See Note 1 | |
| Working Temperature | -40 + 60°C | See Note 2 | |
| Overall Dimensions | 10.4 x 7.2” x 2.2” 263 x 181 x 55 mm | | L x W x H |

EUROPE
Trionic Mobility Systems, SAS

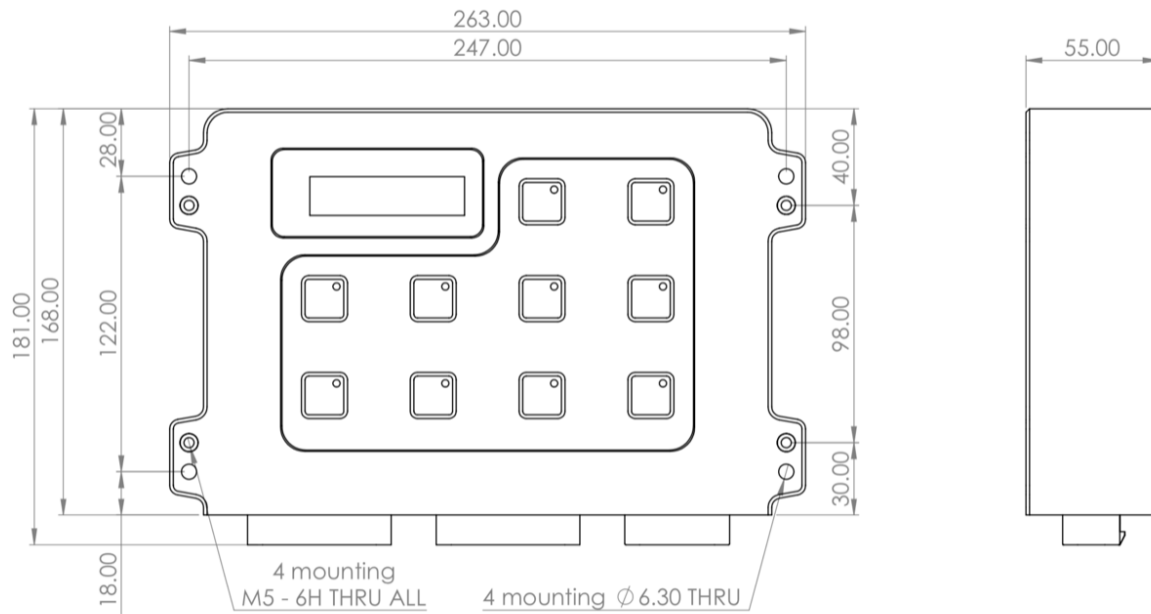
AMERICAS
PG Trionic, Inc.
www.trionigroup.com

ASIA
Trionic Shenzhen Ltd.



RT93 Vehicle Master Controller

Dimensions



Overall Dimensions
10.4 x 7.2 x 2.2"
263 x 181 x 55 mm

Note 1: IP66 from the front
IP56 from the back

Note 2: Below -10°C Onboard Display may become difficult to read