# Magneti Marelli SRA-E R02 Engine Control Unit



**Brand:** Magneti Marelli **Product Code:** SRAE **Availability:** 7 Days

Weight: 0.50kg

**Dimensions:** 20.00cm x 15.00cm x 5.00cm

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Price: \$2,750.00

# **Short Description**

SRA-E is a dedicated Engine Control Unit. A single unit can drive up to eight injectors and six ignition coils. SRA-E can also drive logic command coils or dumb copils without the need for external ignitors (SW option).

# Description

SRA-E provides analogue inputs for single-ended, differential, temperature and knock-sensor as well as an interface for a switching lambda sensor. The unit also provides an H-Bridge output stage for use with suitable "Drive by Wire" actuators.

6 configurable speed sensor inputs (inductive or Hall) provide full flexibility of configuration for engine angle detection as well as other frequency inputs such us wheel or shaft speed.

SRA-EDL16 is a version of the SRA-E with an internal 16 Mbyte data logger.

Communication from the PC based configuration tool (Vision 5) and to other units (such as dashboard and logger) is by the 2 CAN lines and an asynchronous serial line.

Inside the unit there is a high performance RISC microcontroller and an FPGA for diagnostic purposes.

SRA-E is supplied with the mating connector (loom side) or Competition Systems can make a custom harness for you at extra cost.

#### **Main Features**

- 8 Single-ended
- 6 Pick-ups or Hall effect
- 6 Inductive or logic command ignition drivers (SW option)
- 8 On/Off injector drivers
- 1 H-Bridge: DC-Motor driver for "Drive by Wire" control
- 4 PWM (Current controlled PWM)
- 1 On/Off or Linear Lambda sensor
- 2 Knock input for detonation control accelerometers
- 2 CAN communication buses
- 1 Ethernet line

# **Technical Characteristics**

#### Inputs

Analogue Single-ended 8
On/Off or Linear Lambda sensor 1
Knock sensor (multiplexed)2
K-type thermocouple2
NTC/PT1000 temperature sensor (selectable) 4
NTC internal temperature sensor 1
V battery injector 1
VR Pick-ups or Hall effect6
On/Off digital6
Lap Trigger1
"Code Load" enable pin1
Outputs
On/Off injector drivers 8
Inductive or logic command ignition drivers (SW option) 6
H-Bridges 1

Lambda heater drivers 1
PWM4
Low-side On/Off
Voltage references
Communications
CAN line (1 Mbit/s (*))
Ethernet line (100 Mbit/s)
Serial current loop1
(*) Configurable on request
Logic Core
Microcontroller (80 MIPS RISC) 1
FPGA (50k gates) 1
Flash E2PROM (microcontroller) 1 Mbyte
RAM memory (microcontroller) 48 Kbyte
RAM memory 512 Kbyte
E2PROM parallel 64 Kbyte
E2PROM serial 4 Kbyte
Time keeper1
Other Characteristics
Power supply 6 to 16 V
Operating temperature range (internal)20 to 85 °C
Protection classIP 65
Dimensions
with connectors208 x 182.30 x 42 mm
Weight (approx.) 960 g

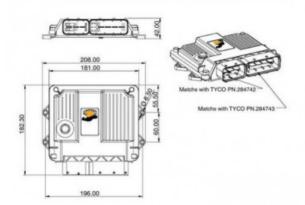
# Specification

Make

Alfa Romeo

**Product Gallery** 

### **Dimensions**



### **Application Schematics**

