Competition Systems - 4/2 Brett Drive
Carrum Downs
Victoria, 3201
Australia

Phone: +613-8743-5550 - Email:
sales@compsystems.com.au

Magneti Marelli SRTE Engine Control Unit

Brand: Magneti Marelli
Product Code: SRTE
Availability: 7 Days
Weight: 0.80kg
Dimensions: 20.00cm x 15.00cm x 5.00cm
Call for Price: +613-8743-5550

Short Description

SRT-E is an evolution of the SRA Engine Control Unit with greater input/output and communications capability in a smaller, tougher housing. It's the great all rounder for motorsport engine control.

Description

SRT-E is a dedicated Engine Control Unit. A single SRT-E can drive up to eight injectors and six ignition coils. It is compatible with a wide range of sensors and actuators (especially F1 products) such as coils, injectors and sensors. SRT-E can also drive logic command coils (HW option).
Communication from the PC based configuration tool and to other units (such as dashboard and logger) is possible by 2 CAN lines and an asynchronous serial line.
Inside the unit there is a high performance RISC microcontroller and an FPGA for diagnostic purposes.
SRT-E provides analogue inputs for single-ended, differential, temperature and knock-sensor as well as an interface for a linear wide band lambda sensor. The unit also provides 2 HBridge output stages for use with suitable “Drive by Wire” or Trumpet Control actuators.
6 configurable speed sensor inputs (up to 3 inductive) provide full flexibility of configuration for engine angle detection as well as other frequency inputs such

as wheel or shaft speed.
SRT-EDL is a version of the SRT E Engine Control Unit with an internal 64 Mbyte data logger.

Main Features

? 14 Single-ended
? 3 Pick-ups or Hall effect
? 3 Hall effect
? 6 Inductive or logic command ignition drivers (HW option)
? 8 On/Off injector drivers
? 2 H-Bridge: DC-Motor driver for “Drive by Wire” control
? 4 PWM
? 2 Linear Lambda
? 2 Knock input for detonation control accelerometers
? 32 or 64 Mbyte internal data logger
? Up to 256 logged channels
? Up to 40 Kbyte/s logging rate
? Sampling rates up to 1000 Hz
? 2 CAN communication buses
? 1 Ethernet line

Technical Characteristics

Inputs
Analogue Single-ended 14
Linear Lambda sensor 2
Knock sensor 2
K-type thermocouple 2
NTC/PT1000 temperature sensor (selectable) 4
NTC internal temperature sensor 1
V battery injector 1
VR Pick-ups or Hall effect 3
Hall effect 3
Lap trigger 1
“Code Load” enable pin 1
Syncro (Iso9141) 1
Outputs
On/Off injector drivers 8
Inductive or logic command ignition drivers (HW option) .. 6
H-Bridges 2
Lambda heater drivers 2

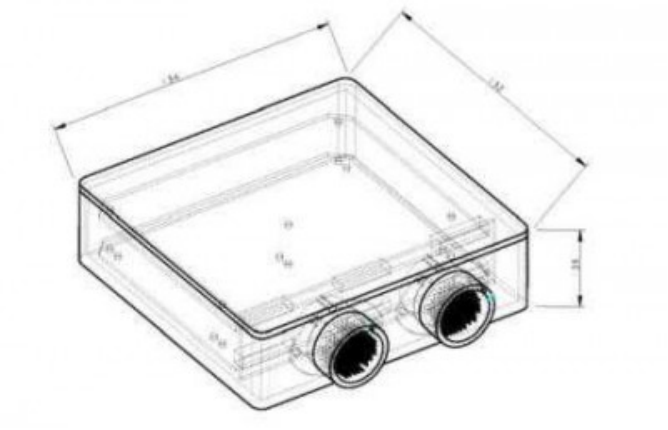
PWM 4
Voltage references 3
Communications
CAN line (1 Mbit/s (*)) 2
Ethernet line (100 Mbit/s) 1
Serial current loop 1
(*) Configurable on request

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 ..... 64 Kbyte
Time keeper 1
Logging
Flash disk memory ..... 32 or 64 Mbyte
Logged channels..... up to 256
Logging rate ..... up to 40 Kbyte/s
Sampling rate ..... up to 1000 Hz
Other Characteristics
Power supply ..... 7 to 16 V
Operating temperature range (internal) ..... -20 to 85 °C
Protection class ..... IP 54
Dimensions
without connectors..... 134 x 132 x 39 mm
Weight (approx.) ..... 700 g

Specification

Make	
Alfa Romeo	

Product Gallery



Dimensions in millimetres