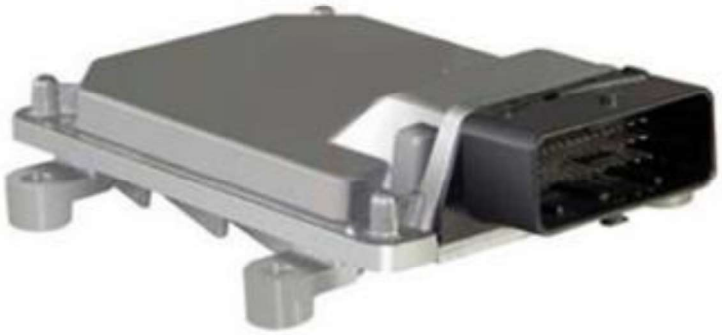
ES12



- Main Microprocessor
  - MPC5744
  - ISO26262 ASIL-D integrity level
  - 200MHz
  - 2.5M Flash
  - 384K SRAM
  - Float Point Capability
- (SBC) MC33CFS6500 microprocessor
- Inputs
  - 8 Analog Inputs
  - 9 Digital Inputs
  - 2 Frequency Inputs
- Communication
  - 3 CAN 2.0B (CANA, CANB, CANC)
  - CANA supports wake-up function
  - 1 LIN
- Sensor 5V Supply: 2 channels
- SPI Serial EEPROM: 64K
- Hardware Watchdog
- Outputs
  - 4 High-Side Drivers
    (2 of which could be configured as PWM outputs)
  - 10 Low Side Drivers
    (2 of which could be configured as PWM outputs)
- 9-32 V Operating Voltage
- OTP: 12KB, 10KB Optional
- Environmental
  - Operating temperature: -40°C to +110°C
  - ISO26262 Compliant
- Simulink Model Based Design

1.1.2 Mechanical Dimensions

The shell of the SCU is die-cast aluminum and assembled with a silicone seal. There is no special treatment or plating on the outside of the housing, etc., and there are no sharp burrs and sharp edges.

The nominal dimensions of the shell shape of the SCU are as follows (excluding the female end of the SCU connector, in mm):