

# EDR UNIT

## EVENT DATA RECORDER UNIT FOR HYBRID/ELECTRIC VEHICLE APPLICATIONS



### Product Description

ASELSAN Electric Vehicle Control Unit is responsible for management of electric vehicle. It interacts with critical components such as traction system, battery management system, drive selector and instrument cluster. It constantly monitors peripherals via communication channels and discrete I/Os and gives decisions to operate electric vehicle seamlessly.

### Typical Applications

Vehicle control of medium to heavy duty HEVs and EVs

### Product Features

- Safe microcontroller with lockstep mode
- Internal wake up capability based on real time clock
- External wake up capability (x3)
- Broad range of I/O support: Digital inputs, quasi analog inputs, resistance reading inputs, high side switches, low side switches
- Elapsed time Counter and environmental (acceleration and temperature) sensors
- 128Mbit external SPI flash
- 1Mbit Serial SPI magnetoresistive RAM
- Increased safety with Freescale safe companion chip
- Overvoltage, undervoltage, reverse battery and overtemperature protection
- High diagnostic coverage
- Low power mode
- GSM ve GPRS module

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### General Specifications

#### Rating

Operating Voltage Range : 9-36 VDC  
 Signal Input/Output : 12 x Digital inputs  
 : 4 x Resistance reading inputs  
 : 14 x Vbat switched digital output  
 : 6 x GND switched digital output  
 : 2 x 5V Output Voltage

#### Communication

: 4x CANBus  
 : 1x RS422  
 : 1x 10/100Mbit Ethernet  
 : LTE and GPRS Communication

### Thermal & Mechanical Data

Operational Temperature : -40°C / +70°C  
 Storage Temperature : -40°C / +85°C  
 Sealing : IP54  
 Weight : < 900 g  
 Cooling Type : Natural Conduction

### Standards

Automotive Components : AEC-Q100 / Q101 / Q200  
 Electromagnetic Compatibility : Test Phase

### Dimensions

