ELECTRIC VEHICLE INSTRUMENT CLUSTER

Product Description
ASELSAN Electric Vehicle Instrument Cluster is used in electric vehicles driver’s working place to display the speed, battery status, regen status, tell tales and other miscellaneous information to the driver. Electric Vehicle Instrument Cluster is easy to install and integrate to the hybrid/electric vehicles (HEV) and electric vehicles (EV).

Typical Applications
Instrument Cluster for heavy duty HEVs and EVs.

Product Features
- Freely programmable display interface infrastructure
- Advanced Freescale i.MX6 Quad/Dual Core ARM + GPU processor
- Rugged 12.3” LCD panel with high resolution and adjustable high brightness
- QNX Neutrino real time operating system
- Internal wake up capability based on real time clock
- External wake up capability
- Broad range of I/O support: Digital inputs, quasi analog inputs, resistance reading inputs, high side switches
- Elapsed time counter, environmental (pressure, humidity and temperature) sensors
- Optional GPS, digital compass/acceleration sensor, stereo speakers up to 1W power each
- Optional headphone, stereo lineout outputs and microphone input
- Increased safety with FPGA based system monitor and control
- 1Mbit magnetoresistive RAM
- Overvoltage, undervoltage, reverse battery and overtemperature protection
# ELECTRIC VEHICLE INSTRUMENT CLUSTER

## General Specifications

<table>
<thead>
<tr>
<th>Rating</th>
<th>Thermal &amp; Mechanical Data</th>
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<tbody>
<tr>
<td>Operating Voltage Range</td>
<td>Operational Temperature : -30°C / +60°C</td>
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<tr>
<td>Signal Input/Output</td>
<td>Storage Temperature : -40°C / +85°C</td>
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<tr>
<td>Communication</td>
<td>Sealing : IP54 Front Side</td>
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<td>Weight : 3kg</td>
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<td>Cooling Type : Conduction</td>
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### Standards

- **Automotive Components**: AEC-Q100 / Q101 / Q200
- **Electromagnetic Compatibility**: Automotive Standards
- **Functional Safety**: Based on ISO26262

### Dimensions

![Dimensions Diagram](image)