Reliability and safety

Programmable Electronic Control Unit
EBH-08 Series
Electronic solutions for mobile applications

Flexible hardware and software architecture

Main features
- Single/Dual microcontroller
- Flexible hardware configuration to fulfill the required functions and to optimize the product cost.
- Double opto isolated can bus, available.
- RS232 interface for standard applications, available.
- Sealed with resin for maximum protection
- C/C++ programmable.
- Suitable for MATLAB automatic code generation.
- Up to HW category 2
- MTTFd = 72 y

Applications
- Material handling
- Agriculture
- Construction Equipment
- Industrial
- Forestry

Technical Data

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main microcontroller</td>
<td>32 bit RISC 80 MHz</td>
</tr>
<tr>
<td>Safety microcontroller</td>
<td>16 bit FMC 32 MHz</td>
</tr>
<tr>
<td>Memory</td>
<td>2KB EEPROM</td>
</tr>
<tr>
<td>Supply</td>
<td>8-30 V dc</td>
</tr>
<tr>
<td>Operative temperature range</td>
<td>-40 to +85° C</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP67</td>
</tr>
<tr>
<td>Dimensions (DxHxW)</td>
<td>142x28x127 mm</td>
</tr>
<tr>
<td>Connector</td>
<td>48 Pin JST S48B-ZROK</td>
</tr>
</tbody>
</table>

INPUTs:
- 4x Digital NPN-PNP
- 10x Analog
- 2x Frequency (NPN sensors, up to 5 kHz)

OUTPUTs:
- 1x Vsupply 5V@300mA@85° C —— 500mA@70° C
- 8x PWMi up to 3A, 1% accuracy, up to 300Hz
- 2x LSD 200 mA (optional)

COMs:
- 2x CAN BUS high speed (opto isolation as options)
- 1x RS232 (optional)

Dimensions
Reference schematic

Application example: CAN BUS  Application example: analog
Application example: hybrid

Applications

Smart Solutions. Superior Support.

For further information please do not hesitate to contact us.

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