



M130

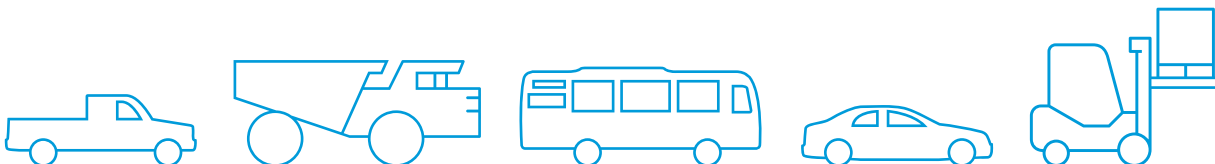
OpenECUTM Multi-Purpose Controller

Capabilities

- 4 high speed CAN 2.0B channels
- LIN master
- Advanced 32-Bit NXP Microprocessor
- SPC5746B
- 80 MHz
- Up to 3MB code space
- Up to 256kB RAM space
- Up to 256kB Calibration space
- CAN-FD capable
- Wake on CAN (CANA)
- Ignition Input
- Total of 6 Analog/Digital inputs
- RTD capable analog inputs
- Software configurable delayed power off
- 2 Analog voltage output channels
- 1 5V 200mA sensor power supply output



Ideal for light, commercial and off-highway vehicles.



M130

OpenECU™ Multi-Purpose Controller

Applications

- CAN Gateway Module
- CAN to LIN Gateway
- CAN I/O Expansion Box
- Smart Relay Driver
- Embedded System Control and Supervisor
- Alternative Fuel System Controller

| Specifications ¹ | | | |
|---------------------------------|------------------------------|--|-------------------------------|
| Communications | | Other | |
| CAN (CAN-FD)² | 4x | Program Status LED Drive | Up to 9x |
| LIN (master)³ | 2x | Reprogramming Enable | 1x @ 18V |
| Inputs | | Electromagnetic Compatibility (Targeted) | |
| Ignition | 1x | Conducted Emissions | CISPR25 Class 2 |
| Analog | 6x | Radiated Emissions | CISPR25 Class 2 |
| Outputs | | Immunity | ISO 11452-4 |
| 500mA LSD | 6x | Conducted Transients | ISO 7637-2 |
| 2A LSD | 4x | ESD | SAE J1113-13 |
| 5V Sensor Power Supply | 1x | Physical | |
| 0-5V Analog ±10mA | 2x | Dimensions | 138 x 130 x 42 mm (L x W x H) |
| Electrical | | Material | PPA GF33 |
| Output Protection | Short to Battery, Ground | Connectors | 2 x 20 pin (Molex MX150) |
| Battery Input Protection | Overvoltage, Reverse Voltage | Vibration | ISO 16750-3 Test VII |
| Operating Voltage | 8V to 32V | Environmental Protection | IP67 – sealed |
| Survive Voltage | -28V to 36V | Operating Temp | -40°C to 85°C |

¹ For full details please refer to the full M130 Technical Specification

³ LIN slave mode on 1 channel can be offered as a population change option, contact Dana for more details

The M130 OpenECU is designed for applications that require 4 CAN channels and a small controller.

Intended applications include CAN-to-CAN message forwarding, LIN-to-CAN message translation, and sensor-to-CAN data broadcasting. The M130 can whitelist specific IDs to shield one CAN bus from unwanted CAN messages on a different bus, for data protection purposes. The M130 can also be used to modify the CAN messages from one bus before transmitting them on the other bus. Using the two LIN channels and the six analog inputs, the M130 can also broadcast smart sensor data to any of its four CAN busses.

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Application Policy

Capacity ratings, features, and specifications vary depending upon the model and type of service. Application approvals must be obtained from Dana; contact your representative for application approval. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.

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