

Talon CAN Bus IoT extender for Sierra mangOH IoT

Low Cost IoT Can Bus for mangOH

CAN Bus IoT Module

The CAN Bus module provides Controller Area Network (CAN) controller that implements the CAN specification, version 2.0B on a small QSFP+ form factor. The Talon CAN controller module offers easy integration into the Sierra mangOH™ IoT platform which serves as the Node Controller. It is capable of transmitting and receiving both standard and extended data and remote frames. The Talon CAN Controller has two acceptance masks and six acceptance filters that are used to filter out unwanted messages, thereby reducing the host MCU's overhead. The CAN Controller interfaces with host node controllers via an industry standard Serial Peripheral Interface (SPI) Bus.

Development Environment

The Sierra mangOH™ IoT platform is based on Legato open source Linux which is designed to simplify embedded IoT development.

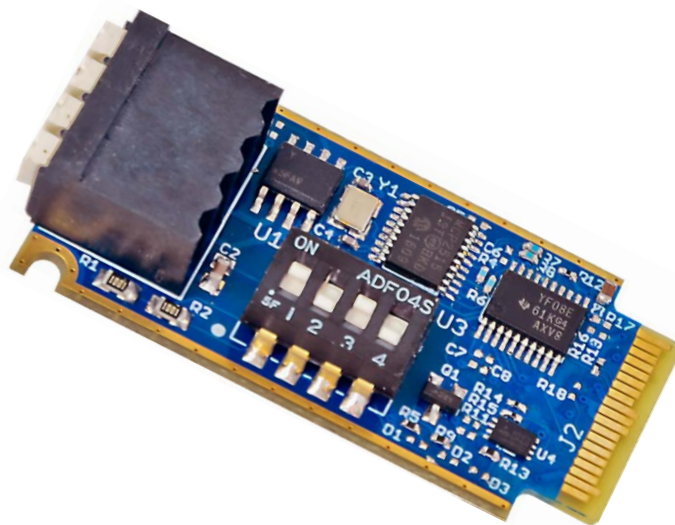
Legato has everything you need to connect the IoT fast:

- Programming language APIs -- dev tools and APIs to easily write software components and specify how apps will use them.
- Target runtime environment -- set of daemon processes cooperatively implement execution sandboxes, secure IPC, fault monitoring.
- Development and build tools -- target, host, and build tools to create apps ready for deployment to your devices.
- Documentation and automated tests -- a raft of docs and automated tests ready to use.

Applications

The CAN IoT form factor offers a proven, low risk option for a wide range of applications including:

- IoT local data gathering
- Medical Equipment
- Aerospace sensors
- Industrial Control
- Automotive networking
- Rail Systems
- Embedded asset management
- Consumer devices



Can IoT Module Features

Features

- CAN V2.0B
- 0-8 byte data field length
- Standard and extended data and remote frames
- High Speed 10MHz SPI Interface
- 3 Transmit and 2 Receive buffers
- SPI modes 0,0 and 1,1
- Interrupt out with selectable enables
- Six 29 bit filters
- Two 29 bit masks
- Up to 4Mbps CAN data rate
- ISO 11898-2 Compliant

Physical

- 42.5mm x 22.3mm x 1.2mm QSFP+ form factor
- -40°C to +125°C Operation
- +3.3v Operation
- +1.8v Tolerant Inputs
- <8mA active current
- <10uA standby current
- +-60V overload protection in all modes
- +-25kV HBM without latchup or damage
- +- 36V input common mode range
- RoHS Compliant

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