



THRASHER

LOCATION, MOVEMENT, GATEWAY, AND DATALOGGING MODULE

The JCA THRASHER module is a multi-function sensing module and wireless gateway capable of sensing orientation, movement, linear acceleration, as well as GPS position with on-board processing capabilities intended for a variety of sensing and detection functions in mobile applications.

The module has wired communication over CAN bus (J1939 and ISOBUS compatible), serial port (RS-232), and optional wireless communication over Wi-Fi. It can be customized with application software to meet the sensing needs, location tracking, and wireless gateway needs of each specific application.

SOME POTENTIAL APPLICATIONS ARE:

- *Wireless gateway between in-system CAN/J1939/ISOBUS networks and Wi-Fi for interfacing with tablets/smartphones*
- *GPS receiver module*
- *Orientation measurement (multi-axis orientation, electronic compass)*
- *Shock event monitoring (e.g. pot-hole detection, crash detection)*
- *Movement detection and measurement*
- *Location tracking*
- *Speed measurement*
- *Altitude measurement*
- *Data logging*



Enabling Innovators

www.jcaelectronics.ca

A SUMMARY OF THE JCA THRASHER MODULE CAPABILITIES ARE:

- Environmentally sealed (IP66), -40°C to +85°C operating temperatures
- Designed for 12V and 24V systems (9V to 32V operation)
- Two CAN buses (ISOBUS Compatible)
- One RS-232 serial port
- Wi-Fi and Bluetooth options
- 2 Gbit of NAND flash standard, and options for up to 256 Gbit NAND flash
- Internal GPS receiver
- Interfaces with NEMA 2000 and NEMA 0183 for higher accuracy GPS (RTK) modules
- 3D Gyroscope for angular rate measurement
- 3D Accelerometer for linear acceleration measurement
- 3D Magnetometer for magnetic field and orientation measurement
- On-board processing capabilities for application specific measurement and detection algorithms
- One high side output (1 Amp maximum)



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LET US OUTLINE YOUR SYSTEM

Let's discuss your electronic system needs. Our experts can help you arrive at a detailed solution that fits your particular application.

Contact us today for your immediate system assessment.

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