TRAX-1
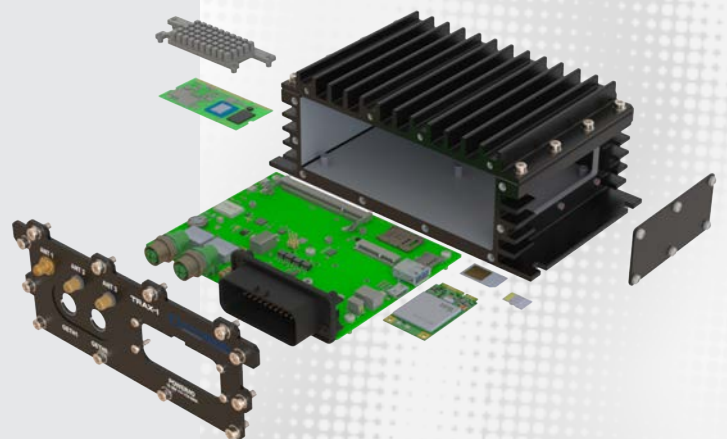

PRODUCT HIGHLIGHTS

- Various ARM Cortex processing options with onboard AI

- OS support for Windows and Linux

- CAN bus (2 to 4 interfaces) for vehicle applications

- Programmable sensors (up to 9-axis): accelerometer, gyroscope, magnetometer

- Wireless interfaces: GNSS (GPS+GLONASS), WiFi 802.11 a/b/g/n/ac, BT 4.2, LTE

- Made in Canada & USA

Front I/O with side maintenance panel

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octagonsystems.com
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FEATURES

OPERATING SYSTEM	Linux, Windows 10 IoT
PROCESSOR	ARM Cortex, I MX-8M processor family, up to four (4) cores @ 1.8GHz
MEMORY	4GB LP-DDR4 with ECC option
STORAGE	16GB eMMC One (1) MicroSD slot for additional storage
SERIAL	Two (2) RS232 (Tx/Rx) serial ports One (1) RS232 or RS485 serial port
USB	One (1) USB 3.0 port
ETHERNET	One (1) 1GbE ethernet port with TSN support Optional: One (1) additional 1GbE ethernet port
WIRELESS CONNECTIVITY	Options for: • GNSS (GPS, GLONASS, QZSS, BeiDou) • WiFi 802.11 a/b/g/n/ac • BT 4.2 • LTE Cellular
VIDEO	• One (1) fully featured mini-HDMI port • Up to 1080p 60fps h.264/h.265 encode and decode
GPIO	Four (4) isolated, configurable GPIO that is compliant to the IEC 61131-2 industrial specification
EXPANSION SLOTS	One (1) mPCIe slot

GRAPHICS	Integrated GC7000UL GPU with OpenCL and Vulkan support Onboard NPU operating up to 2.3TOPS (only with the I.MX8-M + processor option)
POWER REQUIREMENT	9-36V_{DC} Input Voltage Protection for UV, OV, and Reverse Voltage
MECHANICAL	Dimension: 3.1"×5.7"×8.5" (H×W×D) Fan-less operation
CAN BUS OPTIONS	Up to 4 isolated CAN bus: 2 CAN FD supporting 5Mbps Optional: 2 CAN bus supporting full speed 1Mbps
MANAGEABILITY	Integrated Programmable sensors: 3-axis accelerometer, 3-axis gyroscope, and 3-axis magnetometer
ENVIRONMENTAL	Operational temperature: -40°C to 70°C Storage temperature: -40°C to 85°C Humidity: 5-95% Non-Condensing IP65 Dust/Moisture Rating Shock & Vibration: MIL-STD 810G • Method 514.5c-3, Composite Wheeled Vehicle • Method 516.5, 20g/11ms, Terminal sawtooth
REGULATORY	FCC Class A CE Mark ROHS Compliant

ORDERING INFORMATION

Contact us at **855.365.2188** or visit **octagonsystems.com/request-quote** to begin the ordering process.

TRAX - 1 - XXX

Reserved for Customization

TRAX™ Family

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Rev 1.0

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