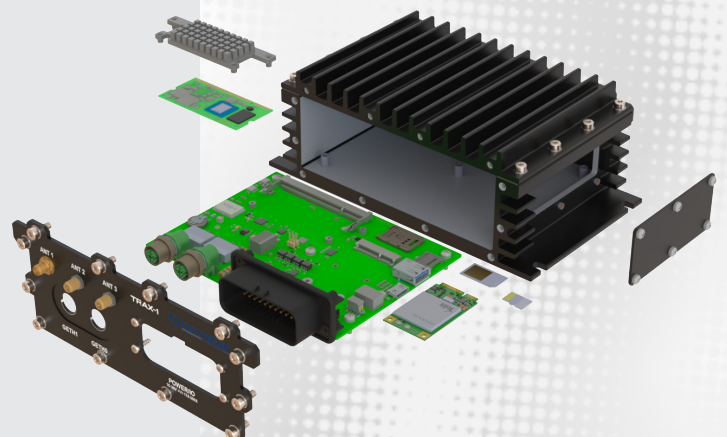


TRAX-1



PRODUCT HIGHLIGHTS

- ⊕ Various ARM Cortex processing options with onboard AI
- ⊕ OS support for Linux and Android
- ⊕ CAN bus (6 to 10 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

FEATURES

OPERATING SYSTEM	Linux (Yocto/Debian), Android, FreeRTOS	POWER REQUIREMENT	10-36V _{DC} Input Voltage Protection for UV, OV, and Reverse Voltage
PROCESSOR	ARM Cortex, i.MX 8M processor family, up to four (4) cores @ 1.8GHz	MECHANICAL	Dimension: 3.1"×5.7"×8.5" (H×W×D) Fan-less operation
MEMORY	4GB LP-DDR4 with ECC option	CAN BUS OPTIONS	Up to ten (10) isolated CAN bus: - Option 1: 2x CAN FD + 4x CAN2.0 - Option 2: 2x CAN FD + 6x CAN2.0 (LTE not available in this configuration) - Option 3: 2x CAN FD + 8x CAN2.0 (LTE not available in this configuration)
STORAGE	16GB eMMC One (1) MicroSD slot for additional storage	MANAGEABILITY	Integrated Programmable sensors: 3-axis accelerometer, 3-axis gyroscope, and 3-axis magnetometer
SERIAL	One (1) RS232 (Tx/Rx) serial port One (1) RS232 or RS485 serial port	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
USB	One (1) USB 3.0 port (maintenance port)	REGULATORY	FCC Class A CE Mark ROHS Compliant
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 (via mPCIe slot)		
GPIO	Four (4) isolated, configurable GPIO that is compliant to the IEC 61131-2 industrial specification		
EXPANSION SLOTS	One (1) Full Feature mPCIe slot		
GRAPHICS	Integrated GC7000UL GPU with OpenCL and Vulkan support Onboard NPU operating up to 2.3TOPS (only with the i.MX 8M Plus processor option)		

ORDERING INFORMATION

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

