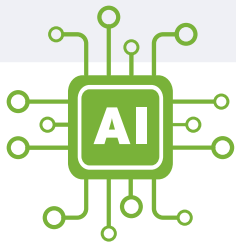
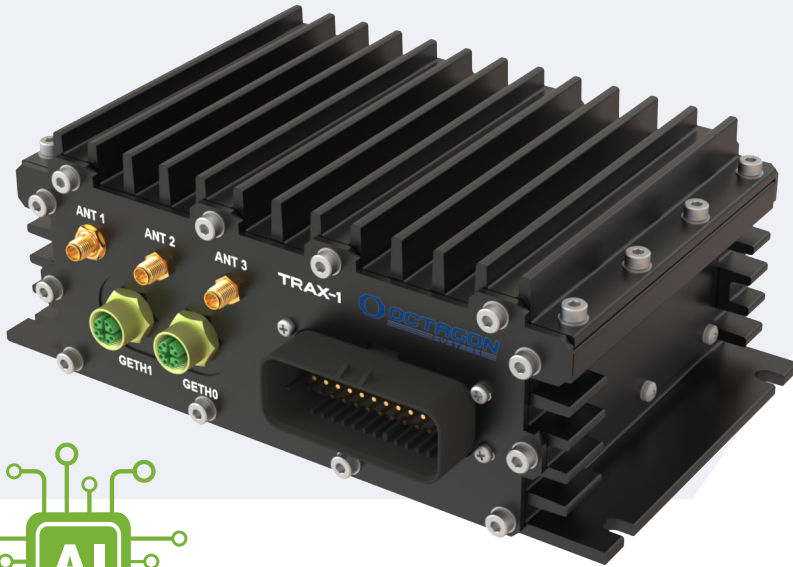


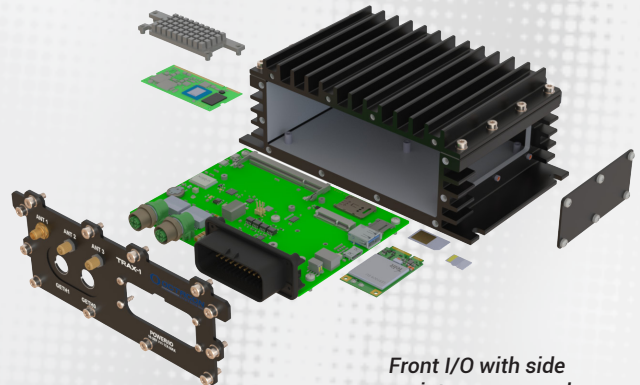
TRAX-1



AI ENABLED

PRODUCT HIGHLIGHTS

- ④ NXP i.MX 8M Plus Application Processor ideal for machine learning, video analytics and industrial IoT applications
- ④ Powerful quad-core ARM® Cortex® CPU with Neural Processing Unit (NPU) delivering 2.3 TOPS of AI processing
- ④ Optional Hailo-8 AI Accelerator providing 26 TOPS of AI processing performance
- ④ OS support for Linux and Android
- ④ CAN bus (6 to 10 interfaces) for vehicle applications
- ④ Programmable sensors (up to 9-axis): accelerometer, gyroscope, magnetometer
- ④ Wireless interfaces: GNSS (GPS+GLONASS), WiFi 802.11 a/b/g/n/ac, BT 4.2, LTE
- ④ 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	NXP i.MX 8M Plus application processor, up to four (4) ARM® CORTEX® A53 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 / AI	Integrated GC7000UL GPU with OpenCL and Vulkan support Onboard NPU operating up to 2.3TOPS (only with the i.MX 8M Plus processor option) Optional Hailo-8 AI acceleration (via mPCIe slot) delivering 26 TOPS		

ORDERING INFORMATION

Contact us at **855.365.2188** or visit jsquared.com/general-inquiries to begin the ordering process.

