The TRAX-10 mini server/router mobile platform combines the functions of a server, router and I/O in one unit, reducing “technology clutter” in the cab. It simplifies installation and maintenance, increases efficiency and safety, and lowers total system cost.

Powered by the Intel® quad-core Atom, both providing four threads for running multiple programs. It has all the I/O of the field-proven standard, the TRAX-5, plus four Gbit Ethernet ports as well as up to three CAN bus ports.

The Open Architecture of the TRAX-10 platform facilitates the widest variety of customer installed software. The application-ready design enables the user to run multiple applications simultaneously such as fleet management, fatigue monitoring, situational awareness and equipment diagnostics.

- Server, Router & I/O in one
- Intel Quad Core CPU
- Native virtualization support
- High performance video
- Gbit Ethernet, CAN, Serial, USB, Digital
- GPS, WiFi, Cellular
- Made in the USA
**Processor**
- Intel Atom, Quad-Core CPU
  - 4 GB, DDR3 - 1333 MHz memory

**Graphics**
- DirectX, OpenGL, OpenCL
- Up to 1920 x 1200 resolution

**Storage**
- Integrated 32 GB SSD
  (up to 256 GB option)
  - Power Interrupt Data Protection
  - SMART Command-based Alerts
  - Security erase

**GPS**
- 72 Channel Engine (included)
- Concurrent GNSS
  - GPS, GLONASS, Galileo, QZSS, SBAS
- Fast Acquisition and High Accuracy

**External I/O**
- Two USB 2.0 Ports
- Four RS-232 COM Ports
  - One Port RS-485 Configurable
- Ethernet Ports
  - One 10/100 Base-T port
  - Four 10/100/1000 Base-T ports (unmanaged switch)
- Digital I/O
  - Five Inputs/one Output with Full Operating Voltage Range
- VGA with Touch Screen Interface plus Audio
- Four antenna connectors
- Status LEDs
- Dual CAN Bus 2.0, isolated (zero, 1 or 3 ports - OEM options)

**Wireless Options**
- 802.11b/g/n Long Range WiFi
- GSM/GPRS/LTE Cellular support (customer supplied)

**Power Supply**
- Isolated topology
- 9-36 VDC input voltage (10-36 VDC continuous)
- Protection for Load Dump, Reverse Voltage, Brown Out, and Transients
- Supports and Powers K-10 Tough Touch Display

**Security**
- Trusted Platform Module (TPM)

**Operating System Compatibility**
- Windows Embedded Standard 7
- Windows Embedded Standard P-10
- Linux

**Mechanical**
- Size: 240 L x 206 W x 96 H mm
  (9.5” x 8.1” x 3.8”)
- Weight: 4.0 kg (8.8 lbs)
- Grounding Stud

**Environmental**
- Operational Temperature: -40°C to 71°C per MIL-STD 810G, Method 501.5 and 502.5
- Temperature Shock: -40C to 71C per MIL-STD 810G, Method 503.5
- Humidity: 5-95% Non-condensing
- IP65 Dust/Moisture Rating
- Vibration: MIL-STD 810F, Method 514.5C-3 Composite Wheeled Vehicle
- Shock: MIL-STD 810F, Method 516.5, 20g/11ms Terminal Sawtooth
- Fan-less Operation

**Regulatory/EMC**
- FCC Class A
- CE Mark
- RoHS Compliant

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**ORDERING INFORMATION**

- #9902R - TRAX-10, E3845 CPU, 1.91 MHz
- #8339 - Power connector with 1M cable
- #9339795X - Windows Embedded Standard 7
- #9339799 - Windows Embedded Standard P-10
- #9339870X - Linux Mint
- #9339798RX - NovAtel OEM617D High Precision GPS w/carrier card
- #9780 - Lab Cable Kit (front panel I/O)

*Call Octagon Sales for help in optimizing a solution*  
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