

TRAX-20

MOBILE MINI-SERVER/ROUTER

THREE SYSTEMS IN ONE



REAR PANEL VIEW

The **TRAX-20** 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® Core i7 CPU, Dual CORE, providing four threads for running multiple applications.

The Open Architecture of the **TRAX-20** platform facilitates the widest variety of customer installed software.

IDEAL FOR

RUNNING MULTIPLE APPLICATIONS SIMULTANEOUSLY

such as :

 SITUATIONAL AWARENESS	 EQUIPMENT DIAGNOSTICS
 HARSH ENVIRONMENT OPERATION	 AUTONOMOUS OPERATIONS
 HIGH RELIABILITY LOW DOWNTIME REQUIREMENTS	

ORDERING INFORMATION

#J2F00247 : BASE SYSTEM

KEY BENEFITS:

- ✓ SERVER, ROUTER & I/O IN ONE
- ✓ INTEL CORE i7, DUAL CORE
- ✓ NATIVE VIRTUALIZATION SUPPORT
- ✓ HIGH PERFORMANCE VIDEO
- ✓ GBIT ETHERNET, CAN, SERIAL, USB, DIGITAL
- ✓ GPS, WIFI, CELLULAR
- ✓ MADE IN CANADA/USA

SPECIFICATIONS

Specifications subject to change without notice

PROCESSOR

- + INTEL CORE i7 CPU 2.80GHz
- UP TO 32GB, DDR4-2133 MHZ MEMORY SOCKETED

GRAPHICS

- + DIRECTX, OPENGL, OPENCL
- + UP TO 1920 X 1200 RESOLUTION

STORAGE

- + STORAGE OPTIONS ARE AVAILABLE FROM 2X 32GB TO 2X 1TB. ALL STORAGE OPTIONS MUST BE FACTORY INSTALLED: 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

- + THREE USB 2.0 PORTS, TWO USB 3.0 PORTS
- + FOUR RS-232 COM PORTS
- + ETHERNET PORTS: FIVE 10/100/1000 BASE-T PORTS (UNMANAGED SWITCH)
- + DIGITAL I/O: FIVE INPUTS WITH FULL OPERATING VOLTAGE RANGE
- + VGA WITH TOUCH SCREEN INTERFACE PLUS AUDIO
- + FIVE ANTENNA CONNECTORS
- + STATUS LEDS
- + DUAL CAN BUS 2.0, ISOLATED
- + ISOLATED CAN BUS 2.0: OPTIONAL

WIRELESS OPTIONS

- + 802.11B/G/N LONG RANGE WIFI
- + GSM/GPRS/LTE CELLULAR SUPPORT
- + SATELLITE COMMUNICATIONS

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) 2.0

OPERATING SYSTEM COMPATIBILITY

- + WINDOWS EMBEDDED STANDARD P-10
- + LINUX

MECHANICAL

- + SIZE: 350mm X 215mm X 125mm
- + WEIGHT: 4.5 kg

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