

OPERATIONAL APPLICATIONS

- Forward Entry Device
- Data Controller/Terminal
- Situational Awareness Device
- Remote Radio Control
- Military Medical Device
- Field Computing Device
- Homeland Security Options
 - Fingerprint matching
 - WWAN options
 - Embedded GPS



Embedded Transceiver Specifications

<i>Specifications</i>	<i>900 MHz</i>	<i>2.4 GHz</i>
General		
Frequency	902-928 MHz	2.4000-2.4835 GHz
Spreading Spectrum Type	Frequency hopping, direct FM	Frequency hopping, direct FM
Network Topology	Point-to-multipoint, point-to-point multi-drop transparent	Point-to-multipoint, point-to-point multi-drop transparent
Channel Capacity	7 hop sequences share 25 frequencies	7 hop sequences share 25 frequencies
Serial Data Interface	RS-232/422/485	RS-232/422/485
I/O Data Rate	Software selectable 1200-57,600 bps	Software selectable 1200-57,600 bps
Certifications		
FCC Part 15.247	OUR9XSTREAM	OUR-24XSTREAM
Industrial Canada	4214A-9XSTREAM	4214A 12008
Europe	N/A	ETSI
Performance		
Indoor/Urban Range	Up to 1500' (457 m)	Up to 600' (183 m)
Outdoor LOS Range	Up to 7 mi. (11 km) w/dipole Up to 20+ mi. (32 km) w/high-gain	Up to 3 mi. (5 km) w/dipole Up to 10 mi. (16 km) w/high-gain
Serial Data Throughput	1200 bps 9600 bps 20,000 bps	9600 bps 19.2 kbps
RF Baud Rate	1280 bps 10,000 bps 20,000 bps	10,000 bps 20,000 bps
Transmit Power Output	140 mW 140 mW 140 mW (21.5 dBm)(21.5 dBm) (21.5 dBm)	50 mW 50 mW (17 dBm) (17 dBm)
Receiver Sensitivity	-116 dBm -110 dBm -107 dBm	-105 dBm -102 dBm

*Developer Kit Available

Features

- Processor.....Intel® XScale 400 MHz Processor
- SDRAM Memory.....128 MB
- ROM Memory.....48 MB
- Operating System.....Windows CE (Pocket PC 2003)
- Audio.....Loudspeaker Built In
- Microphone.....Built In
- Display.....Touch Sensitive Transflective TFT LCD, 65,536 colors (16 bit), 240 x 320 (QVGA), 2.26 x 3.02 inches (3.77 inches diagonal)
- Power.....Internal Lithium Polymer, External Battery Adapter, AC/DC Charger, DC/DC Converter
- Interfaces (Standard).....Serial Port 115 Kbps
USB (Slave)
Audio Input/Output
Infrared Port 115 Kbps
802.11b WiFi (Optional)
Bluetooth (Optional)

Options

- PC Card slots.....Multiple Configurations via Expansion Modules
- Tactical Modem Protocols.....PCMCIA Internal Dual Channel Communications Controller, Compatibility MIL-STD-188-220, JVMF, MIL-STD-188-184, Tacfire, MTS, X.25, 2/4 Wireline
- Tactical Modem Compatibility...Taalink 3000 or VDC-600
- GPS.....Embedded Military SAASM GPS or Commercial GPS

Accessories

- AC/DC Charger
- DC/DC Converter (MIL-STD-1275)
- Battery Adapter for Use with AA batteries
- Serial RS232 Cable
- Field Carrying Case
- Display Protective Cover
- NVG Filter
- Customized Domes for Environmental Protection of PCMCIA Cards
- Rugged Shipping Case
- Homeland Security Options

Physical

Dimensions: 3.6"x 6.2"x 2.35"
Weight: ≤ 31.5 oz.

Environmental

- Altitude: Operational 15,000 ft., Storage 40,000 ft.
- Operating Temperature: -4°F to +131°F
- Storage Temperature: -31°F to +149°F
- Immersion: 1m of water
- MIL-STD-810F
- EMI: MIL-STD-461D

*Specifications are subject to change without notice. Re.01.25.05



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