



GENERAL

Size 10.6 " (L) x 4.0" x 4.3" (H)
 Weight 7 lb
 Operating temperature range..... -30C to +60C
 Power requirements 10 to 16 VDC
 Stand-by current..... 550 ma continuous
 TX Current:
 Low-band VHF: 25A nominal @ 12 VDC
 High-band VHF & UHF: 10A nominal @ 12 VDC
 FCC ID.....BIB6100000-01



TRANSCEIVERS

- Three multi-band FCC Part 90 transceivers covering 39-50 MHz, 151-162 MHz and 896-901/935-940 MHz bands
- IEEE 802.11b (WiFi) with WPA security extensions
- GPS receiver with differential compensation
- Multiple waveform support including BPSK, GFSK, GMSK and Analog FM (voice)
- Raw data rates from 4kbps to 19.2kbps (narrowband)
- Channel bandwidth support for 6.25 kHz, 12.5 kHz and 25 kHz
- Carrier Power: Low-band VHF 100W max (15% TX duty cycle)
 High-band UHF 30W max (50% TX duty cycle)

DIGITAL SIGNAL PROCESSING

DSPHardware Accelerated
 Frequency Synthesized 32 bit Resolution
 Fast Channel Switching..... 1 msec
 FECFast Acquisition, Fast Correlation,
 Co-Channel Signal Resolution

EMBEDDED COMMUNICATION MANAGEMENT

- High performance 300 MIPS GPU
- 64 MB memory
- Automated command and event management scripting
- Full programming language and API capable of developing custom spatial and temporal message routing heuristics

I/O CAPABILITIES

- 4 Optically Isolated Inputs
- 6 Analog Inputs
- 3 RS-232 programmable data ports

* Specifications are subject to change without notice.

NETWORK FEATURES

- MBNet™ network protocol services for over-the-air and peer-to-peer data communications across all bands
- 2 10BaseT Ethernet ports with separate MAC addresses
- 2 USB 2.0 ports
- Multiple waveform support including BPSK, GFSK, GMSK



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