

MCC-6100 SDR

Software Defined Radio

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
• Transmit (50 msec average) specification:	
– Low-band VHF: 25A nominal @ 12 VDC	
– High-band VHF & UHF: 10A nominal @ 12 VDC	
FCC ID.....	BIB6100000-01

COMMUNICATION BANDS

Low Band	VHF, 39-50 MHz, Data
High Band VHF	156-163 MHz, Data and Voice
UHF.....	896-901/935-940 MHz, Data
Standard Format	12.5 kHz, 9.6 Kbps, GMSK
Other Formats	PSK, $\pi/4$ DQPSK up to 19.2 kbps/25 kHz
	<i>Other waveforms can be added through software</i>

CMU CAPABILITIES

- Embedded 300 MIPS Processor
- TCP/IP Stack and All IP Protocols including mobile IP, NAT, DHCP, IPsec and IPv6
- Flash Memory Mass Storage
- Field upgradeable operating system

DIGITAL SIGNAL PROCESSING

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



NETWORK FEATURES

- Self organizing, Mesh Network Topology with peer-to-peer communications
- MBNET200 Protocols on High and Low Bands
- Internal DGPS
- (2) USB 2.0 Host/Device ports
- (2) 10BaseT Ethernet Ports, (1) IEEE 802.11b (WiFi)
- Fully programmable "over-the-air" with built-in scripting language

I/O CAPABILITIES

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

* Specifications are subject to change without notice.

Meteor Communications Corporation (MCC) has been providing its clients with network services, turnkey networks, robust communication protocols, adaptive network software and very reliable hardware since 1975.

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