

**iR1200 Modem Specifications**

Product Characteristics	
<b>Modem Data Connector</b>	RS-232 port utilizing a DB9 pin serial
<b>Diagnostics Data Connector</b>	RS-232 port utilizing a DB9 pin serial
<b>Optional GPS Connector</b>	RS-232 port utilizing a DB9 pin serial
<b>Power Input Connectors</b>	4 Pin Molex
<b>Ignition Sense Connector</b>	4 Pin Molex
<b>Antenna Connector</b>	Mini UHF female on modem
<b>GPS Antenna Connector</b>	MCX female on modem
<b>LED indicators</b>	6 SIGNAL and 1 bi-color STATUS indicators
<b>Reset Button</b>	YES
<b>Master Reset Button</b>	YES
Processors	
<b>Processors</b>	8 Bit RISC
<b>Program Flash</b>	16k bytes of program flash
Physical Characteristics	
<b>Weight</b>	600 grams
<b>Dimension</b>	5.04" W x 2.20"H x 7.09"D
<b>Case</b>	Dust and water resistant, black aluminum extrusion
Electrical Characteristics	
<b>Input Voltage</b>	10 - 16 VDC
<b>Input Current</b>	0.1 amps steady state, 1.5 amps peak transient
<b>Tx Output</b>	600 mW Typical
<b>Power Fail Reset</b>	NO
Communication	
<b>Communication Networks</b>	iDEN®
<b>Operating Modes</b>	Modem (NORMAL) mode only
<b>Radio Frequency</b>	Tx 806-825 MHz Rx 851-870 MHz
GPS Characteristics (optional)	
<b>GPS Receiver</b>	8 channel with 32 correlators
<b>GPS Data Protocols</b>	NMEA 0183 v3.0, optional TSIP and TAIP
<b>GPS Engines</b>	Trimble
<b>GPS Messages</b>	GGA, VTG, GLL, ZDA, GSA, GSV
<b>Update Rates</b>	1 Hz

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Environmental Parameters	
<b>Operating Temperature</b>	-25°C to +60°C
<b>Storage Temperature</b>	-40°C to +85°C
<b>Operating Humidity</b>	0-95% non-condensing @ +50°C
<b>Shock &amp; Vibration Conformance</b>	Per MIL-STD-810E
<b>EMI/EMC</b>	FCC Part 15, Part 90
Optional Features	
<b>Solar Panel Interface</b>	YES
<b>External Diagnostics Software</b>	YES