

Wireless 900MHz RF Modems - Specification Sheet

<u>Specifications</u>	AWB-R RS-232 / 485	AWB-U USB	AWB-E Ethernet	
Performance	Transmit Power Output (Selectable)		1mW to 1W (0 to 30 dBm)	
	Indoor / Urban Range (w/ 2.1 dB dipole antenna)		Up to 3000' no line of sight	
	Outdoor RF Line of Sight Range (w/ 2.1 dB dipole antenna)		Up to 14 Miles	
	Outdoor RF Line of Sight Range (w/ high gain antenna)		Up to 40 Miles	
	Interface Data Rate (Selectable)		10 to 230,400 bps (Including non-standard baud rates)	
	Throughput Data Rate (Selectable)		9,600 or 115,200 bps	
	RF Data Rate		10,000 bps (@9600 bps Throuput Data Rate) 125,000 bps (@115,200 bps)	
	Receiver Sensitivity		-110 dBm (@9600 bps Throuput Data Rata) -100 dBm @ 115,200 bps)	
	Networking & Security	Frequency		ISM 902 - 928 MHz
Spread Spectrum		Frequency Hopping Spread Spectrum		
Modulation		FSK (Frequency Shift Keying)		
Supported Network Topologies		Peer to Peer (no master / slave dependencies) Point to Point, Multipoint, & Multidrop		
Channel Capacity		10 hop sequences share 50 frequencies		
Encryption		256 bit AES algorithm - AES algorithm meets federal information processing standard - 197 (FIPS 197)		
Antenna	Connector		RPSMA (reverse polarity SMA)	
	Impedance		50 ohms unbalanced	
Power Requirements	Power Supply Voltage		7-28 V	
	Receive Current	110mA	100mA (Self Power) 270mA	
	Pin Sleep Power Down	17mA	17mA N/A	
	Serial Port Sleep Power Down	45mA	45mA 210mA	
	Idle Current (Various cyclic sleep intervals)	19-39mA	21-32mA (Self Power) 210-224mA	
	Transmit Current (1mW to 1W transmit power)	110-900mA	88-480 mA 270-830mA	
	Physical Properties	Size		
Division 1 Version		13.5H x 4"W		
Panel Mount Version		2.750" x 5.500" x 1.125"		
Weight				
Division 1 Version		8.6 lbs.		
Panel Mount Version		7.1 oz.		
Data Connection		DB-9	USB	RJ-45
Operating Temperature		-40°C to +85°C		

Specifications are subject to change at any time without prior notice

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