

DigiMesh 900 RF Module Specification

Platform	XBee-PRO® DigiMesh® 900
Performance	
RF Data Rate	156 Kbps
Indoor/Urban Range	450 ft (140 m)
Outdoor/RF Line-of-Sight Range	Up to 1.8 miles (3 km)
Outdoor/RF Line-of-Sight Range w/ High-Gain Antenna	Up to 6 miles (10 km)
Transmit Power	50 mW (+17 dBm)
Receiver Sensitivity (10% PER)	-100 dBm
Features	
Serial Data Interface	3.3V CMOS Serial UART (5V tolerant inputs)
Configuration Method	AT & API, local or over-the-air
Frequency Band	900 MHz ISM
Interference Immunity	FHSS
Serial Data Rate	Up to 230 Kbps
ADC Inputs	6 (10-bit) Analog Inputs
Digital I/O	13 I/O lines
Antenna Options	Wired Whip, U.FL connector, RPSMA connector
Networking & Security	
Encryption	128-bit AES
Reliable Packet Delivery	Retries/Acknowledgments
Addressing Options	PAN ID, channel, 64-bit address
Channels	8 hopping patterns on 12 channels or single channel
Power Requirements	
Supply Voltage	3.0 – 3.6 VDC
Transmit Current	210 mA
Receive Current	80 mA
Power-Down Current	60 uA @ 3.3V
Regulatory Approvals	
FCC (USA)	Yes
IC (Canada)	Yes
C-TICK (Australia)	No