

Specification Data	
Job Name	
Type	
Catalog #	
Comments	

PRODUCT OVERVIEW

The RF220SU is an IEEE 802.15.4, low-power, highly reliable solution for embedded wireless communication. It embeds Synapse's SNAP OS which includes an on-board Python interpreter for rapid application development and over-the-air programming.

KEY FEATURES:

- RP-SMA Antenna or U.FL connector for External Antenna
- SNAP auto-forming, auto-healing Mesh Network
- Up to 2 Mbps radio data rate
- 2.4 GHz RF Frequency, License-free band
- Spread Spectrum (DSSS) technology
- Solder-able or socket-able
- Secure over-the-air software upgrades
- Secure AES128 Encryption

Antenna Options

Part #	Description
Pulse W1027	Indoor, Articulated, 3.2 dBi Gain
HyperLink HG2405RD-RSP	Indoor, Articulated, 5.5 dBi Gain



WIRELESSLY CONNECT, CONTROL, AND MONITOR

Order #	Description
RF220SU	RF SNAP Radio Module

SPECIFICATIONS:

Dimensions	1.34" x 1.34" (34mm x 34mm)
Operating Temp	-40°C to +85°C
Radio	SNAP 2.4GHz; 802.15.4 +20dBm Transmit power -103dBm Receive Sensitivity
Range (Line of Sight)	Up to 2000 feet
GPIO	20 total with up to 7 A/D inputs
UARTs	2 ports
Memory	128K flash 58.5K free for User Apps 4K internal EEPROM
Input Voltage	2.0 to 3.6VDC
Certifications	FCC/IC
Warranty	1 Year

See www.synapsewireless.com/warranty for warranty terms.

RADIO

To learn more visit: synapsewireless.com