Specification	Data
Job Name	
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PRODUCT OVERVIEW

The RF220UF1 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.

WIRELESSLY CONNECT, CONTROL, AND MONITOR

Order #	Description
RF220UF1	RF SNAP Radio Module

KEY FEATURES:

- Integrated On-board Compact F 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

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 500 feet (Integrated), or up to 2000 feet (External)
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; CE, UKCA
Warranty	1 Year

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

RADIO

To learn more visit: synapsewireless.com