

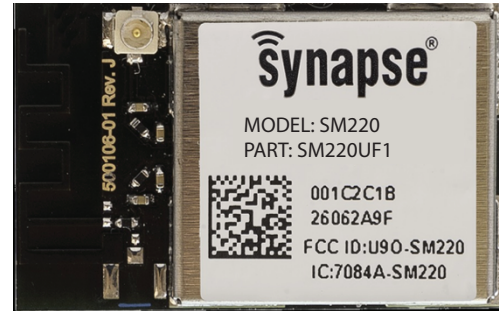
| Specification Data | |
|--------------------|--|
| Job Name | |
| Type | |
| Catalog # | |
| Comments | |

PRODUCT OVERVIEW

The SM220UF1 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:

- 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
- Surface Mount, 8x8 Land Grid Array footprint
- Secure over-the-air software upgrades
- Secure AES128 Encryption



WIRELESSLY CONNECT, CONTROL, AND MONITOR

| Product # | Description |
|-----------|---------------------------------|
| SM220UF1 | Surface Mount SNAP Radio Module |

| | |
|------------------------------|--|
| Dimensions | 1.17" x 0.75" (29.8mm x 19mm) |
| 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 | Up to 32 with up to 7 A/D Inputs |
| UARTs | 2 ports |
| Memory | 128K flash, 58.5K free for over the-air uploaded User Apps; 4K internal EEPROM |
| Input Voltage | 2.0 to 3.6VDC |
| Certifications | FCC/IC; CE, UKCA |
| Warranty¹ | 1 Year |

To learn more call, or visit:
synapsewireless.com (877) 982-7888

Footnotes:

1. See www.synapsewireless.com/warranty for warranty term