

Specification Data	
Job Name	
Type	
Catalog #	
Comments	

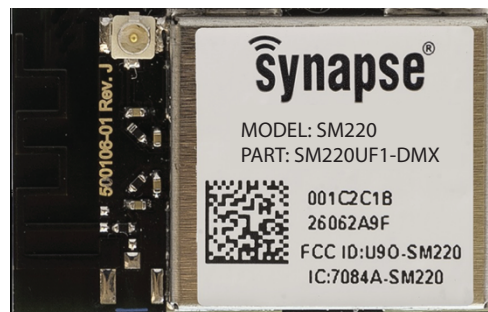
## PRODUCT OVERVIEW

The SM220UF1-DMX 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. The SM220UF1-DMX wirelessly connects DMX devices and supports up to 14 universes and 96 channels each.

## KEY FEATURES:

- Supports up to 14 universes with up to 96 channels each
- Supports Encrypted DMX512-A protocol
- 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

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



## WIRELESSLY CONNECT DMX DEVICES

Product #	Description
SM220UF1-DMX	Surface Mount SNAP Radio Module for DMX Applications

<b>Dimensions</b>	1.17" x 0.75" (29.8mm x 19mm)
<b>Operating Temp</b>	-40°C to 85°C
<b>Radio</b>	SNAP 2.4GHz; 802.15.4 +20dBm Transmit power -103dBm Receive Sensitivity
<b>Range (Line of Sight)</b>	Up to 500 feet (Integrated), or up to 2000 feet (External)
<b>GPIO</b>	Up to 32 with up to 7 A/D Inputs
<b>DMX</b>	Up to 14 Universes; Up to 96 Channels each
<b>UARTs</b>	2 ports
<b>Memory</b>	128K flash, 58.5K free for over the-air uploaded User Apps; 4K internal EEPROM
<b>Input Voltage</b>	2.0 to 3.6VDC
<b>Certifications</b>	FCC/IC; CE, UKCA
<b>Warranty<sup>2</sup></b>	1 Year

### Footnotes:

1. See [www.synapsewireless.com/warranty](http://www.synapsewireless.com/warranty) for warranty term