



Surface Mount, Low Profile
Wideband with GPS

Low Profile Wideband 800-2200 MHz with GPS

- Multiband antenna for GPS and Cellular Voice/Data including AWS
- Can be used for GSM, GPRS, EDGE, CDMA, 1xRTT, EV-DO, 3G, AWS, UMTS, or HSPA
- Low profile shape; attractive & impact resistant
- Rugged case; passes industry and military shock and vibration testing

This two-cable antenna combines two applications at a time: GPS on one cable and any one of several wireless data applications on the other cable.

The LMW Series stands out from the other Mobile Mark Surface Mount Antenna Series in that it is extremely broadbanded and covers worldwide cellular bands from 800-960 MHz and 1700-2200 MHz, including UMTS and AWS. It has excellent performance characteristics and performs well across the entire band.

This new wideband Surface Mount Antennas offer greater

flexibility for stocking and installation because they can function over multiple systems.

For GPS, the performance is 26 dB amplifier gain with 5 dBi RHCP nominal antenna gain. The antennas have low noise figure with excellent filter characteristics.

This rugged antenna can be mounted with complete confidence in a wide range of setting. It can be mounted to any vehicle, container or bulkhead with a threaded stud mount. For optimal performance, a ground plane is recommended.

Antenna Model Configurator

LMW-----

example - LMW-UMB-3C2C

Combo Configuration

Code	Description
LMW-UMB	Cable 1 = 800 - 2200 MHz Cable 2 = GPS

Operates on Worldwide Cellular protocols:
GSM, CDMA, GRPS, 1xRTT, EDGE, EV-DO, 3G, 4G, UMTS, AWS as well as Nextel, Trunking & ISM.

Cable #1

Code	Description
3A	RF-195/TNC
3B	RF-195/MiniUHF
3C	RF-195/SMA
3J	RF-195/RevPol SMA
3K	RF-195/RevPol TNC
00	No Cellular/cable

Cable #2

Code	Description
2A	RF-174/TNC
2B	RF-174/MiniUHF
2C	RF-174/SMA
2J	RF-174/RevPol SMA
2K	RF-174/RevPol TNC
00	No GPS/cable

Specifications

Frequency:

Cable 1	800 - 2200 MHz
Cable 2, GPS	1575.42 +/- 2 MHz

Data Side:

Gain (800 - 1250 MHz)	2 dBi
Gain (1650 - 2200 MHz)	4 dBi
VSWR:	2:1 max over range

Nominal Impedance:

50 ohms

Power:

20 Watts

GPS Side:

Amplifier gain	26 dB, LNA
Antenna gain	5 dBi nominal RHCP, Antenna
Noise Figure	2.0 dB max, 1.7 dB typical
Amplifier Bias	2.7 to 5 VDC
Amplifier Current	20 mA max, 10 mA typical

Operating Temp:

-40° to +85° C

Standard Cables:

Cable 1	RF-195 15 ft (3 meters)
GPS	RG-174, 15 ft (3 meters)

Optional Cables:

Cable 1	RG-58, 15 ft (3 meters)
GPS	RG-174, 15 ft (3 meters)
Connectors:	(2) SMA Plug (Male) standard
Case:	3.5"D x 1.5"H (8.9 cm x 3.8 cm)
Case Material:	White UV resistant ASA
Mounting:	5/8" dia.x 1/2" long (16 mm x13 mm) Up to 1/4" (64 mm) thick metal
Hardware:	Nut and gasket included