



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, 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 Antenna offers greater flexibility for stocking and installation because it 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 settings. It can be mounted to any vehicle, container or bulkhead with a threaded stud mount. For optimal performance, a ground plane is recommended.

**Model Configurator**

LMW-UMB-   -   -

Cable/Connector 1

Cable/Connector 2

Color

Cable Length in Inches (eg. 12 or 180)

Example: LMW-UMB-3C2C-WHT-180

<u>Cable Options:</u>		<u>Connector Options:</u>		<u>Color Options:</u>	
<u>Code</u>	<u>Cable</u>	<u>Code</u>	<u>Connector</u>	<u>Code</u>	<u>Color</u>
1	RG-58	A	TNC	WHT	White
2	RG-174	B	Mini UHF	BLK	Black
3	RF-195	C	SMA		

(Other Configurations available.)

### Specifications

<b>Frequency:</b>	
Cable 1	800 - 2200 MHz
Cable 2, GPS	1575.42 +/- 2 MHz
<b>Data Side:</b>	
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
Operating Temp:	-40° to +80° C
<b>GPS Side:</b>	
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

<b>Standard Cables:</b>	
Cable 1	RF-195 15 ft (4.5 meters)
Cable 2 (GPS)	RG-174, 15 ft (4.5 meters)
<b>Optional Cables:</b>	
Cable 1	RG-58, 15 ft (4.5 meters)
<b>Connectors:</b>	
Case:	SMA Plug (Male) standard
Case Material:	3.5"D x 1.5"H (89 mm x 38 mm)
Mounting:	UV resistant ASA
	5/8" dia. x 1/2" long
	(16 mm x 13 mm)
	Up to 1/4" (6.4 mm) thick metal
Hardware:	Nut and gasket included
Shock & Vibration:	EN 61373, IEEE 1478, MIL-810G
	TIA-329.2-C
Water Ingress:	IPx7