



LTB301 Antenna

## LTB301 multiband 3-cable Cellular/LTE MIMO & GPS

- 3-cables: two Cellular/LTE and one GPS
- Field proven design; dependable link
- Slim line, blade style: fits on NEMA Box

This 3-element LTB antenna is designed for Utility Cabinets and NEMA Boxes, it can be mounted in any setting where a slim profile is desired. It offers outstanding electrical performance as well as a unique mechanical package.

Mobile Mark's LTB301 blade-style Multiband/MIMO antenna for Smart Grids combines two Cellular LTE elements and one GPS element in a slim, compact radome. It measures only 7 1/2" long by 1 1/2" deep and less than 4" tall (19cm x 3.8 cm x 10cm). It is attached through a single mounting hole that accommodates all three cable connections. A special gasket preserves the IP67 water ingress rating when properly mounted.

Using our new slim line package, the LTB301 is a Multiband 4G/LTE 2x MIMO (multiple-input-multiple-output) antenna with dual LTE (694-960 MHz and 1710-2700 MHz) in addition to GPS at 1575 MHz. This particular model comes with SMA plugs and two 18" (45.72cm) RF Cables as well as one 18" (45.72 cm)RG-174 cable for GPS. The LTB can also be configured without GPS. This blade style antenna is ground-plane independent and designed to perform on either a fiberglass or metal box.

**Model Configurator**

LTB301-   -     -

Cable/Connector 1							
Cable/Connector 2							
Cable/Connector 3							
Color							
Cable Length in Inches (eg. 12 or 180)							

Example: LTB301-3C3C2C-GRY-18

Cable Options:		Connector Options:		Color Options:	
Code	Cable	Code	Connector	Code	Color
3	LL-195	C	SMA	GRY	Grey
2	RG-174				

### Specifications

Frequency & Gain (peak): Cable 1 & 2 (Cellular/LTE)	694-960 MHz, 3 dBi & 1710-2700 MHz, 4 dBi
Cable 3 (GPS)	1575 MHz
VSWR*:	2:1 VSWR over Range
Impedance:	50 Ohm Nominal
Maximum Power:	10 Watts
GPS	
Amplifier Bias:	2.7 to 5 VDC
Noise Figure:	2.0 dB max, 1.7 dB typical
Current:	20 mA max, 10 mA typical
Mounting dimensions	5/8" (1.5 cm) Dia. Feed through 1" (2.54 cm) lg. thread for up to 3/4" (1.9 cm) thick surface (Electrical Cabinet)

Radome Material:	Light Grey UV Inhibitive Plastic
Operating Temperature:	-40° to +80° C
Connectors/Interface:	SMA Plugs standard. Connectors may vary
Cable 1-2 (Cellular/LTE)	Separate LL-195, 18" (45.72 cm)
Cable 3 (GPS)	RG-174, 18" (45.72cm)
Groundplane:	None required
Shock & Vibration:	EN 300 019-2-4, IEC 60068, SAE J1455
Water Ingress:	IP67

\*Measured on 1'(30cm) ground with 1'(30cm) cable