



**CLTM501  
Antenna**

## CLTM501 Ceiling Mount LTE MIMO, WiFi MIMO

- 4-cables, multi-band antenna: two for LTE MIMO & two for WiFi MIMO
- Cellular/LTE elements used for either Diversity or MIMO
- WiFi elements used for WiFi MIMO or for separate WiFi modems
- Low Loss Fire Retardant LMR-195FR

Mobile Mark's CLTM501 Series Ceiling Mount antenna contains four separate antennas, all in one compact antenna housing: two LTE 700 MHz & Cellular antennas and two dual-band WiFi antennas.

MIMO (multiple-input-multiple-output) modems offer greater speed and capacity than earlier generations of modems. They achieve this by sending RF signals on multiple antenna elements to maximize the amount of information transmitted and received.

This new MIMO technology is used in several frequency bands, initially for 802.11n WiFi bands and more recently for LTE in the 700 MHz band. To ensure optimum performance, the systems need multiple antennas on both the transmission and receive ends.

With 4-elements, the new LTM antenna is ideal for DAS & In-building systems that combine an LTE MIMO modem with a WiFi MIMO modem.

Measuring 5.5" (140mm) in diameter with a low profile of 2.38" (60.4mm), CLTM series antennas take up significantly less space than multiple antennas. The antenna is secured to the ceiling with a mounting clamp that fastened the antenna to the metal grid holding the ceiling tiles.

**Model Configurator**

CLTM501- [ ] [ ] [ ] [ ] [ ] [ ] - [ ] [ ] [ ] - [ ]

Cable/Connector 1  
Cable/Connector 2  
Cable/Connector 3  
Cable/Connector 4

Color \_\_\_\_\_  
Cable Length in Inches (eg. 12 or 180) \_\_\_\_\_

Example: CLTM501-9Y9Y9Y9Y-WHT-12

| Cable Options: |           | Connector Options: |             | Color Options: |       |
|----------------|-----------|--------------------|-------------|----------------|-------|
| Code           | Cable     | Code               | Connector   | Code           | Color |
| 9              | LMR-195FR | JA                 | RP SMA jack | WHT            | White |
|                |           | KA                 | RP TNC jack | BLK            | Black |
|                |           | V                  | SMA jack    |                |       |
|                |           | W                  | TNC jack    |                |       |
|                |           | Y                  | N jack      |                |       |

(Other Configurations available.)

| Specifications            |  |                    |   |
|---------------------------|--|--------------------|---|
| Frequency & Gain (peak)*: |  | Case:              | 5.50" Dia. x 2.38" High<br>(140mm x 60.4mm)             |
| Cable 1 & 2 (LTE)         | 694-960 MHz, 3 dBi<br>1710-2170 MHz, 4 dBi   | Connectors:        | N jack (female) standard                                |
| Cable 3 & 4 (WiFi)        | 2400-2500 MHz, 5 dBi<br>4900-6000 MHz, 5 dBi | Cable:             | LMR-195FR, 1 ft(30cm)                                   |
| VSWR*:                    | 2:1 VSWR over Range                          | Mounting hardware: | Clamp to mount antenna to<br>ceiling tile grid included |
| Impedance:                | 50 Ohm Nominal                               | Shock & Vibration: | IEEE1478, EN61373, MIL-810G,<br>TIA 329.2-C             |
| Maximum Power:            | 10 Watts                                     |                    |   |
| Radome Material:          | ASA UV-Stable Plastic                        |                    |   |
| Operating Temperature:    | -40° to +80° C                               |                    |   |

\*Measured on 1' ground with 1' cable