

Surface Mount, MIMO Mobile WiFi



MIMO Low Profile Surface Mount Antennas

- Multiple-Input-Multiple-Output antenna
- Models with 2 or 3-cables: each cable with identical bandwidth coverage
- Passed Industry and Military shock and vibration standards
- Water ingress rating of IPx7

Many of the newest wireless networks, are moving towards greater use of MIMO (Multiple-Input-Multiple-Output) systems and MIMO Antennas.

MIMO systems, also known as spatial multiplexing, transmit different data on different antenna elements. The net result is greater data throughput and improved bandwidth efficiency.

Mobile Mark's new MIMO Mobile Antenna provides two or three cable feeds, each with identical frequency coverage. Separate antenna elements are housed within a compact rugged radome.

Each element is fed by a different cable; each cable covers the entire bandwidth specified.

This Low Profile Surface Mount Antenna is housed in a rugged, UV Resistant, ASA radome that measures 1.5-inches (38mm) tall x 3.5-inches (89mm) in diameter.

Standard configuration is Low Loss RF-195 cable with SMA Plug (Male).

The SMD Antenna will stand up to harsh environments. It has a water ingress rating of IPx7 and has been tested to and passed Industry and Military shock and vibration standards.

Model Configurator

SMD-W- 3 3 3 - -

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

Example: SMD-W-3C3C3C-WHT-180

* for 2 cable option, omit one set of cable/connectors
eg. SMD-W-3C3C-WHT-180

| Cable Options: | | Connector Options: | | Color Options: | |
|----------------|--------|--------------------|-----------|----------------|-------|
| Code | Cable | Code | Connector | Code | Color |
| 3 | RF-195 | A | TNC | WHT | White |
| | | B | Mini UHF | BLK | Black |
| | | C | SMA | | |
| | | D | SMB | | |
| | | E | MCX | | |

(Other Configurations available.)

Specifications

| | | | |
|----------------|-------------------------------|----------------------|---|
| Frequency: | | Color: | White or black |
| Cable 1-3 | 2.4-2.5 & 4.9-6.0 GHz | Mounting: | Thru-hole, 5/8" diameter (1.6 cm) 3/4" long (1.9 cm) threaded stud |
| Gain: | 4 dBi (peak) | Mounting Surface: | Up to 1/4" (6.3 cm) thick metal |
| VSWR: | 2:1 max over range | Connectors: | SMA Plug (Male) Standard |
| Isolation: | >20 dB between elements | Operating Temp: | -40 to +85° C |
| Impedance: | 50 Ohms (nominal) | Shock and Vibration: | EN 61373, IEEE-1478, MIL-810G TIA-329.2-C |
| Max power: | 20 Watts | Water Ingress: | IPx7 (when properly mounted) |
| Polarization: | Vertical | | |
| Power: | 20 Watts max | | |
| Cables: | RF-195, 15 ft (4.5 m) | | |
| Case: | 3.5"D x 1.5"H (89 cm x 38 cm) | | |
| Weight: | 1.0 lbs (.45 kg) | | |
| Case Material: | UV resistant ASA | | |