

## Surface Mount MIMO Mobile WiMAX



MIMO Low Profile Surface Mount Antennas available with 2 or 3 MIMO elements

Many of the newest wireless networks, such as, WiMAX and WiFi 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.

The MIMO Mobile 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: EN 61373, IEEE1478, and MIL-STD-810G.

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

**Model Configurator**

SMD-3500- 3  3  3  -    -

Cable/Connector 1 \_\_\_\_\_

Cable/Connector 2 \_\_\_\_\_

Cable/Connector 3\* \_\_\_\_\_

Color \_\_\_\_\_

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

Example: SMD-3500-3C3C3C-WHT-180

\* for 2 cable option, omit one set of cable/connectors  
eg. SMD-3500-3C3C-WHT-180

Specify "MSMD" instead of "SMD" for Magnet Mount Option

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:	2.1-2.7 & 3.3-3.8 GHz
Gain:	4 dBi (peak)
VSWR:	2:1 max over range
Isolation:	>20 dB between elements
Impedance:	50 Ohms (nominal)
Max power:	20 watt
Polarization:	Vertical
Cables:	RF-195, 15 ft (4.5m)
Case:	3.5"D x 1.5"H (89 mm x 38 mm)
Case Material:	UV resistant ASA
Color:	White
Weight:	1.0 lbs (.45 kg)

Mounting:	Thru-hole, 5/8" diameter (1.6 cm) 3/4" long (1.9 mm) threaded stud
Mounting Surface:	Up to 1/4" (6.3 mm) thick metal
Connectors:	SMA Plug (Male) Standard
Operating Temp:	-40 to +85° C
Shock and Vibration:	EN 61373, IEEE-1478, MIL-810G TIA-329.2-C
Water Ingress:	IPx7 (when properly mounted)