



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

## Surface Mount MIMO Mobile WiMAX

- 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

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.

**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

<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>
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	Mounting:	Thru-hole, 5/8" diameter (1.6 cm) 3/4" long (1.9 mm) threaded stud
Gain:	4 dBi (peak)	Mounting Surface:	Up to 1/4" (6.3 mm) 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 watt	Water Ingress:	IPx7 (when properly mount-
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)		