



Omni-Directional MIMO

Omni-Directional MIMO Antennas, WIMAX 3.5 GHz

- Multiple-Input-Multiple-Output antenna
- Each MIMO antenna is configured with 3 separate cables & connectors
- Composite Omni-directional pattern for all 3 feeds
- Passes industry shock and vibration standards

MIMO (Multiple-Input-Multiple-Output) systems, also known as spatial multiplexing, transmit different data on different antenna elements. The data is decoded and combined at the receive end. The net result is greater data throughput and improved bandwidth efficiency.

Mobile Mark's DOD7-3500 MIMO (Multiple-Input-Multiple-Output) Site Antennas provide 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 of 3.4-3.7 GHz.

The DOD Series Omni-directional Antenna provides 7 dBi gain in a radome measuring just under 40" tall x 1" in diameter.

The RF-195 cables exiting the base of the antenna are typically staggered at 9", 12" and 15" in length for easy handling during installation. Other cable lengths can be requested.

A well designed antenna is an important part of a complete MIMO system. Mobile Mark's MIMO Site Antennas meet the electrical and

mechanical standards needed for consistent coverage in tough settings.

This MIMO omni-directional antenna is ideally used as a network filler for MIMO WiMAX systems, providing the maximum coverage throughout the network. This single model is broadbanded enough to cover WiMAX systems at 3.4, 3.5 and 3.65 GHz.

The antenna is designed to maximize the efficiency of the three independent elements, while maintaining the composite omni-directional radiation pattern of the antenna.

The DOD Series omni-directional antennas have passed Industry standards for Shock & Vibration. The antennas have also been rated IPx5 for Water Ingress. This antenna can handle severe weather conditions.

Model #	# Cables
DOD7-3500-3C3C-BLK	3
DOD7-3500-3C3C-BLK	2
Custom cable lengths available	

Specifications			
Frequency:	3.4-3.7 GHz	Case:	40"H x 1"D (101.6 cm x 2.54 cm)
Gain:	7 dBi all bands	Material:	Fiberglass radome, metal base
VSWR:	2:1 max over range	Color:	Black
Isolation:	>20 dB between elements	Mounting:	Mounts to up to 2 1/2" (6.4 cm) OD Pipe, U-bolt kit included
Impedance:	50 Ohms (nominal)	Cable jumpers:	Available separately
Max power:	25 watt	Cables:	3 RF-195 Cables 9", 12", 15" (22.9, 30.5, 38.1 cm)
Beamwidth:		Connectors:	SMA Plug (Male)
Elevation	17°	Shock and Vibration:	EN 300 019-2-4, IEC 60068
Azimuth	360° composite	Water Ingress:	IPx5
Operating Temp:	-40 to +85° C		
Lightning protection:	External recommended		
Max Wind Velocity:	125+ MPH		