



## OP24516DS

### 6-Port MIMO Pole/Mast Mount Antenna 2400-2500 MHz/5150-5875 MHz

The OP24516DS antenna is an indoor/outdoor pole mounted omnidirectional antenna designed for 802.11n applications. As a 6-element MIMO antenna, each port operates over the 2.4GHz and 5 GHz bands, providing a broadband solution in a single radome. It features a low profile radome and is designed to withstand the rigors of outdoor applications with an IP67 Ingression Protection rating. The radiation patterns are uniform and symmetrical, providing high levels of signal density into defined coverage zones. This antenna greatly enhances the performance of 802.11n systems.

### FEATURES AND BENEFITS

- Low profile esthetically neutral housing
- Both indoor/outdoor
- Six-element MIMO solution
- IP67 rating
- Conformance to RoHS

#### ELECTRICAL SPECIFICATIONS

	2400-2500	5150-5875
Operating Frequency (MHz)	2400-2500	5150-5875
Gain (dBi)	2.0 typical (2.8 max)	4.8 typical (6.5 max)
Vertical Plane 3 dB Beamwidth	66°	30°
Horizontal Plane 3 dB Beamwidth	360°	360°
Isolation Port-to-port (dB)	20	25
Number of Ports	6	
VSWR - Max	2.0:1	
Nominal Impedance (Ohms)	50	
Polarization	Linear, Vertical	
Max Power - Ambient 25°C (W)	30 (5W x 6 ports)	

#### MECHANICAL SPECIFICATIONS

Dimensions - diameter x height - mm (inches)	209.6 x 116.5 (8.25 x 4.59)
Weight - kg (lbs.)	1.6 (3.53)
Cable Type	Plenum rated RG58
Radome Material	Polycarbonate, white

## ENVIRONMENTAL SPECIFICATIONS

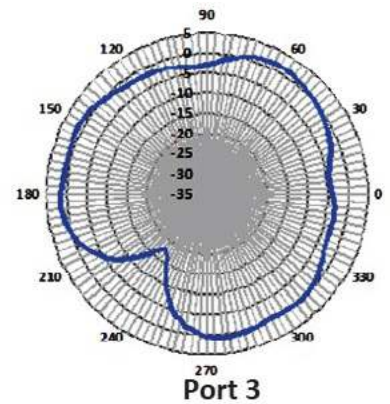
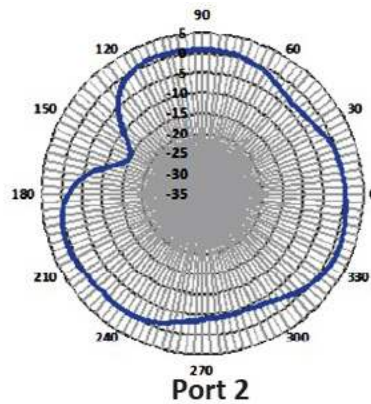
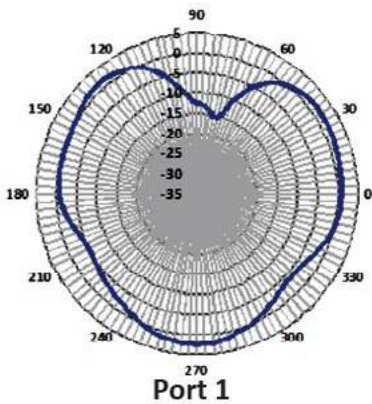
Wind Survival - km/hr (mph)	200 (125)
Operating Temperature - °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature - °C (°F)	-40 to +85°C (-40 to +185°F)
Ingress Protection Rating	IP67

## CONFIGURATION

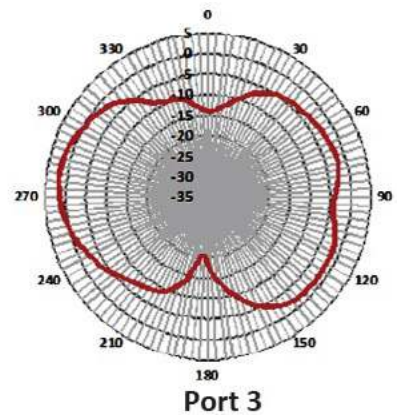
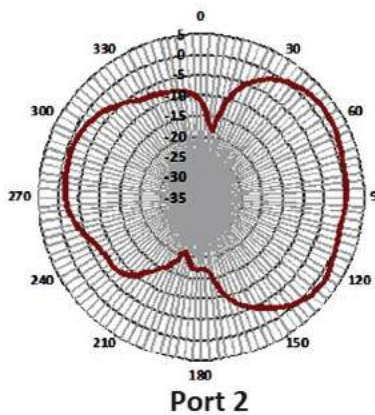
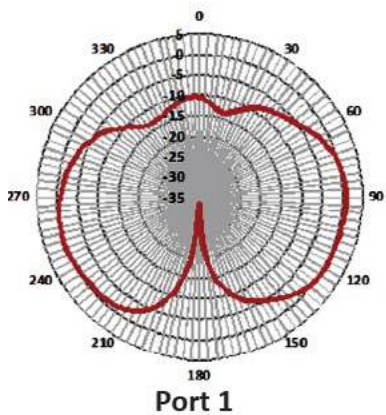
PART NUMBER	CABLE LENGTH	CONNECTOR
OP24516DS-91NM	Six at 910 mm ±18 mm (Six at 36 in ±0.71 in)	Six, Type N
OP24516DS-91RSMM	Six at 910 mm ±18 mm (Six at 36 in ±0.71 in)	Six, Reverse Polarity SMA Male

## RADIATION PATTERNS

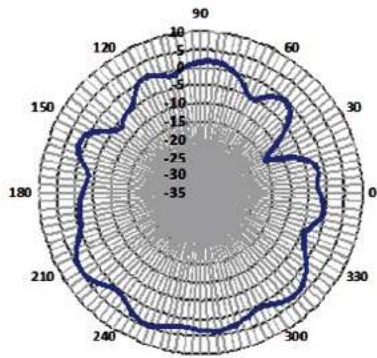
### AZIMUTH, 2400 MHz



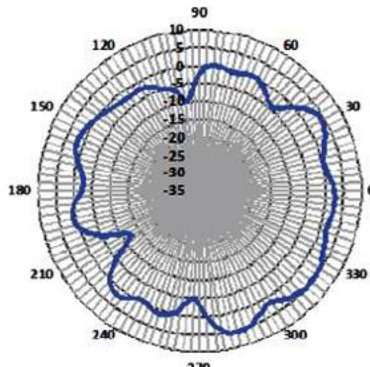
### ELEVATION, 2400 MHz



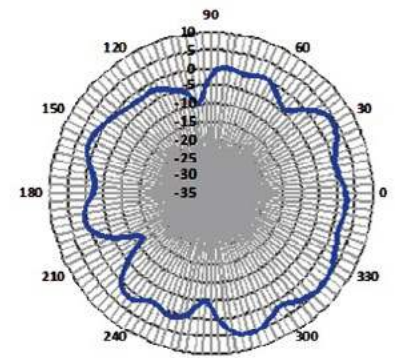
## AZIMUTH, 5550 MHZ



Port 1

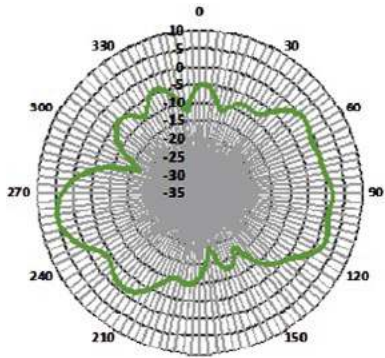


Port 2

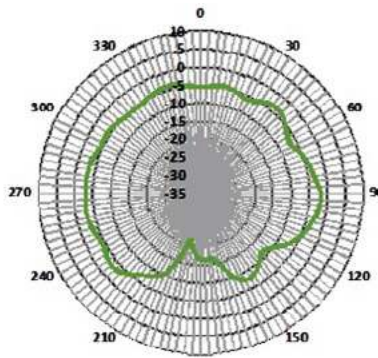


Port 3

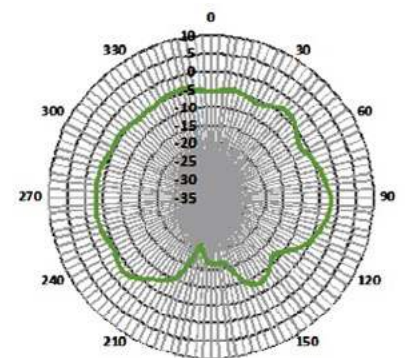
## ELEVATION, 5550 MHZ



Port 1



Port 2



Port 3

### TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

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