

# Dual Band 2400-2500 MHz/5150-5875 MHz 6-port MIMO Pole/Mast Mount Antenna

## OP24516DS



### 6-PORT OMNIDIRECTIONAL DUAL BAND MIMO ANTENNA

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

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

#### MARKETS

- Offices, hotels and college campuses
- Airports and hospitals
- Bus terminals and train stations
- Museums, libraries and retail malls
- Wi-Fi Hot Spots
- Cellular off-loading
- 802.11n MIMO

| PARAMETER                       | PERFORMANCE                                  |
|---------------------------------|--|
| Frequency                       | 2400-2500 MHz/5150-5875 MHz                  |
| Gain (dBi)                      | 2.0 Typical (2.8 Max)/ 4.8 Typical (6.5 Max) |
| VSWR                            | 2.0:1, Max                                   |
| Nominal Impedance               | 50Ω  |
| Polarization                    | Linear, Vertical                             |
| Azimuth Typical 3dB Beamwidth   | Omnidirectional                              |
| Elevation Typical 3dB Beamwidth | 66° /30°                                     |
| Port-to-Port Isolation          | 20 dB /25 dB                                 |
| Input Power                     | 5W x 6                                       |
| RF Connector                    | Type N, Male 6x                              |
| Cable Type                      | Plenum rated RG-58                           |
| Cable Length                    | 910 mm±18 mm 6x (36 in±0.71 in 6x)           |
| Radome Material                 | Polycarbonate, White                         |
| Mounting                        | Mast Mount (31.8-57.2 OD)                    |
| Wind Survival                   | 200 km/hr (125 mph)                          |
| Operational Temperature         | -30°C to +70°C                               |
| Storage Temperature             | -40°C to +85°C                               |
| Ingression Protection           | IP67   |
| Dimensions (height x OD)        | 116.5 x 209.6 mm                             |
| Weight                          | 1.6 kg (3.53 lbs)                            |

#### CONNECTORS

| PART NO.         | CONNECTOR                 |
|------------------|---------------------------|
| OP24516DS-91NM   | Type N male               |
| OP24516DS-91RSMM | Reverse Polarity SMA male |

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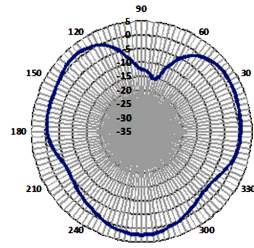
Europe: +44.1628.858941  
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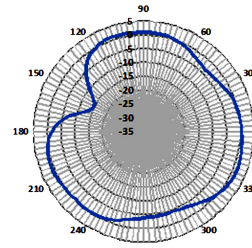
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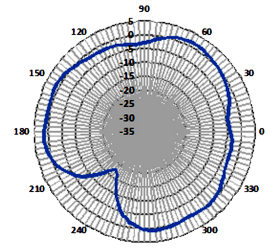
## AZIMUTH PATTERNS



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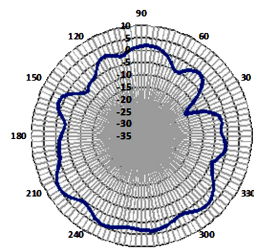


Port 2

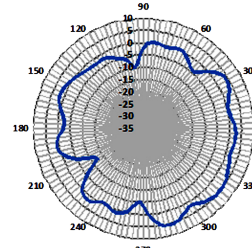


Port 3

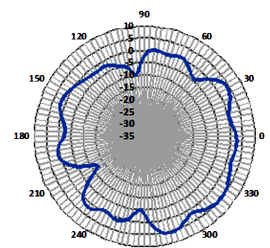
Frequency = 2400 MHz



Port 1



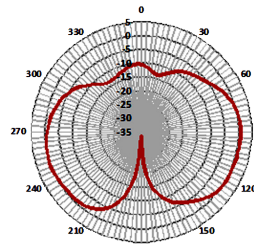
Port 2



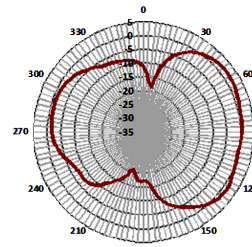
Port 3

Frequency = 5550 MHz

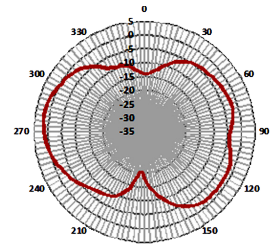
## ELEVATION PATTERNS



Port 1

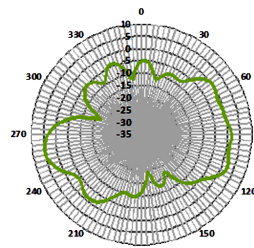


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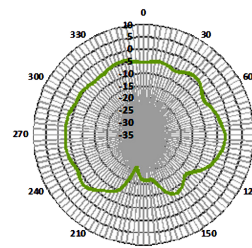


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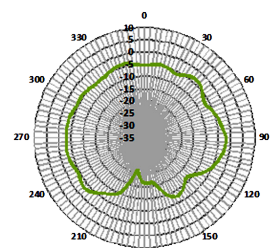
Frequency = 2400 MHz



Port 1



Port 2



Port 3

Frequency = 5550 MHz

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