

DUAL POLARIZATION 2X2 MIMO DISH ANTENNA

VEGA *Mx* (Patented)

VERY HIGH GAIN ANTENNA for **5G** BANDS

2.1,2.3,2.5,2.6,3.3-3.8 GHz Model CMW12WB



VEGA-Highest Gain for Targeted Coverage with Lowest Capex

The VEGA (Very High Gain Antenna) solution is the most flexible & cost-effective means to meet some of the more pressing coverage challenges in Cellular Access Networks.

VEGA's $\pm 45^\circ$ Dual Slant Polarization design combines very high gain with polarization Diversity 2x2MIMO and true narrow beam making it an ideal solution for long corridor coverage such as highways, railways and deep valleys.

Remote rural communities can get good service without the need for another BTS. VEGA Solutions can be used to illuminate "difficult to penetrate" office, commercial & residential buildings in place of expensive and difficult to set up In-Door coverage networks.

The VEGA Parabolic Dish Antenna is robustly constructed of lightweight Aluminum dish for low wind and ice loading and low environmental impact.



Features

Extremely Cost Effective Coverage Enhancement Solution

- ◆ Covers all Cellular Bands 2100-3800 MHz
- ◆ Very High Gain for Distance Coverage
- ◆ Pencil Beam for Minimum Interference
- ◆ Low PIM Multi Carrier 5G applications
- ◆ Designed for Cellular Applications
- ◆ Dual Polarization for 2x2 MIMO
- ◆ Extremely Rugged Structure
- ◆ Mechanical $\pm 15^\circ$ Tilt and $\pm 10^\circ$ Azimuth
- ◆ Easy Field Installation
- ◆ Compatible with all Cellular Standards
- ◆ Robust Galvanized Mounting Structure
- ◆ Mounting Structure included



Applications

VEGA applications Save BTS installations

- ◆ Less Base Stations Necessary
- ◆ Long Highway Coverage
- ◆ 5G service along long Rails
- ◆ Remote Illumination of Distant Targets
- ◆ Corridor Coverage Enhancement
- ◆ Indoor Penetration
- ◆ Narrow Beam for Repeater Donor Antenna
- ◆ Cascaded RF Repeater Antenna
- ◆ Spatial Interference Elimination
- ◆ Up & Down Link Budget Improvements
- ◆ BTS Narrow Sectorization
- ◆ Range Enhancing without Tower-Top LNA
- ◆ EIRP Boosting for Hot-Spot Coverage

The VEGA is a COMARCOM product



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Specification subjected to change without notice

Dual Polarization 2X2 MIMO Dish Antenna

Electrical Specifications

Parameter	Model CMW12WB					
Frequency Band	2100-3800 MHz	2100MHz	2350MHz	2550 MHz	2650MHz	3.5-3.8GHz
Gain IdBi	±0.5dB	23 dBi	24dBi	25 dBi	25.5dBi	26 dBi
3 dB Beam Width (Az & El)		9°±0.5°	8.5°±0.5°	8°±0.5°	7.5°±0.5°	6°±0.5°
Cross Polarization (on Axis)		> 23dB	>24dB	> 20dB	>23dB	> 16dB
1 st Side Lobes Level		<-15dB	<-15dB	<-15dB	<-15dB	<-15dB
Front to Back ratio		>29dB	>38dB	>30dB	>31dB	>38dB
Polarization	Dual Slant (±45°)					
VSWR	Tvpical <1.4			Max<1.5		
RF Power per port (max)	200W					
PIM @2x+43dBm input	< -153 dBc					
Lightning Protection	DC Grounded					

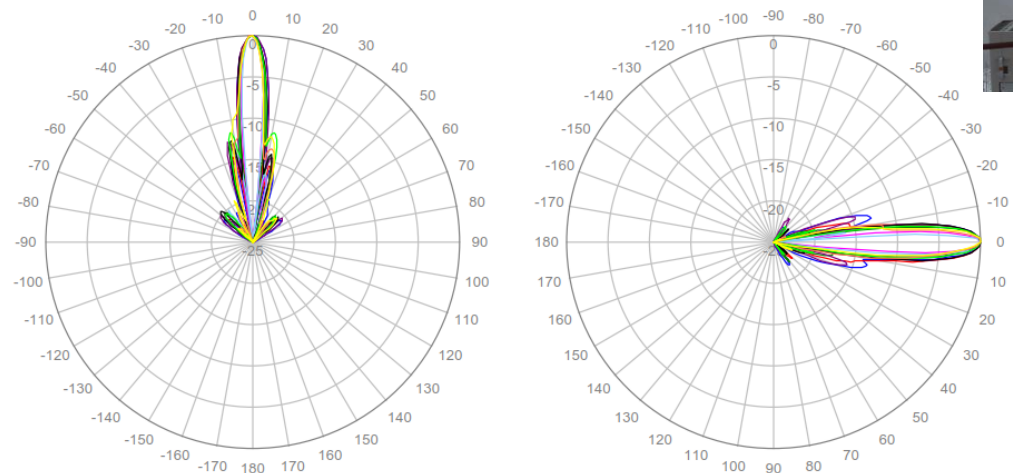
Mechanical & Environmental

Parameter	Specification
Reflector Aperture Diameter	1.0 meters (3.3 feet)
Reflector and Back Mount Material	Aluminum / Galvanized Steel
Mounting Pipe Diameter *	76mm-115mm (3"-4.5") O.D
Antenna Weight (including Mounting)	13 Kg (28 lb)
Wind Load (axial; side) @150km/h (94mph)	1416N; 484N (317 lb;114 lb)
Survival Wind Speed	200km/h (125mph)
Operating Temperature [°C]	+60 to -60 °C
Down Tilt Adjustment Continuous Range	±15°
Azimuth Adjustment Continuous Range	±10°
Connectors	4.3/10 DIN, Female

* Antenna mount & hoisting sling always included

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Typical VEGA model CMW12WB Radiation Patterns



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