DUAL POLARIZATION DIVERSITY DISH ANTENNA

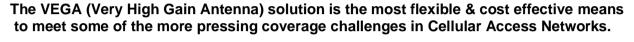
VEGA (Pa

VERY HIGH GAIN ANTENNA for CELLULAR BANDS

690-960MHz Model CC12-WB



VEGA-Highest Gain for Targeted Coverage with Lowest Capex



VEGA's unique ±45° Dual Slant Polarization design combines high gain with polarization diversity and true narrow beam making it an ideal solution for long corridor coverage such as highways, railways and deep valleys. Remote rural communities can be provided 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 semi-transparent steel mesh for low wind and ice loading and low environmental impact.



Extremely Cost Effective Coverage Enhancement Solution

- ♦ Covers all Bands 690-960 MHz
- ♦ Higher Gain for Distance Coverage
- ♦ Pencil Beam for Minimum Interference
- ♦ Designed for Cellular Applications
- ♦ Dual Polarization for Diversity Gain
- ♦ Extremely Rugged all Steel Structure
- ♦ Very low Wind Load
- ♦ +5° to -15° Down Tilt Mechanism
- ♦ Easy Field Installation
- ♦ Compatible with all Cellular Standards
- ♦ Small Transportation Packaging
- ♦ Low Weight Welded Galvanized Structure
- ♦ Transparent Dish for Low Zoning Impact



VEGA applications Save BTS installations

- ♦ Less Base Stations Necessary
- ♦ Long Highway & Railway Coverage
- ♦ 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
- Overcoming Multiple Reflection Problems

The VEGA is a COMARCOM product



7 Haemek st. POB 275, Tivon, 3601102, Israel
Tel. +972 4 9531638 Fax. +972 4 9931781

Specification subjected to change without notice



		2-WB
@750 MHz	@850 MHz	z @950 MHz
21.6 dBi	22.5 dBi	23 dBi
13°±0.5°	11.5°±0.5°	10.5°±0.5°
> 20dB	> 22dB	> 22dB
<-24dB	<-25dB	<-25dB
>28dB	>32dB	>36dB
	Dual Slant (±45°)
	Typ<1.4	Max<1.6
200W		
<-153dBc		
DC Grounded		
	21.6 dBi 13°±0.5° > 20dB <-24dB	21.6 dBi 22.5 dBi 13°±0.5° 11.5°±0.5° > 20dB > 22dB <-24dB <-25dB >28dB >32dB Dual Slant (Typ<1.4 200W <-153dB





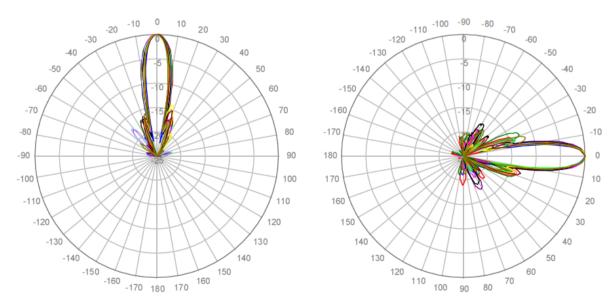


Mechanical & Environmental

Parameter	Specification
Reflector Aperture Diameter	2.0 meters (6.66 feet)
Reflector and Back Mount Material	Perforated Galvanized Steel Mesh /Galvanized Steel
Mounting Pipe Diameter *	76mm-115mm (3"-4.5") O.D
Antenna Weight (including Mounting)	41 Kg (90 lb)
Wind Load (axial; side) @150km/h (94a	mph) 2556N;935N (574 lb;210 lb)
Survival Wind Speed	200km/h (125mph)
Down Tilt Continuous Range	+5° to -15°
Connectors	7/16 DIN or 4.3/10 DIN, Female



Typical VEGA model CC12-WB Radiation Patterns



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Email: contact@comarcom.biz WEB: www.comarcom.biz



^{*} Antenna mount & hoisting sling always included