

# Symmetrical Horn Carrier Class Gen 2

## HORN ANTENNA WITH N-FEMALE CONNECTORS

Symmetrical Horn CC Antennas Gen2 offer unique RF performance in a compact package. Scalar horn antennas have symmetrical main beam with identical beam width in Vertical and Horizontal plane. Exceptionally small side lobes ensure remarkable interference suppression. HG3-CC Gen2 Antennas are ideal for coverage of areas with clients close to the installation site, where null zone issues exist. High density AP clusters and radio co-location is made possible due to unique radiation patterns and compact size.

Symmetrical Horn CC Antennas Gen2 feature multiple improvements of RF performance and design, namely, optically lighter body and significantly improved bracket. Radome is made of more resistant material, and all of HG3-CC Gen2 antennas use only two radome sizes. HG3-CC Gen2 antenna is equipped with N-female connectors.



### TECHNICAL DATA

Radio Connection	2x N Female Bulkhead Connector
Antenna Type	Horn
Materials	UV Resistant polycarbonate, Polypropylene, Aluminium, Zinc, Stainless Steel
Enviromental	IP55
Flame Rating	UL 94 HB
Pole Mounting Diameter	30-80 mm (1.1-3.1 inch) Recommended as close to 80 mm (3.1 inch) as possible
Temperature	-30°C to +55°C (-22°F to +131°F)
Wind Survival	160 km/h (100 mi/h)
Wind Load	21/12 N - Front/Side at 160 km/h (100 mi/h)
Effective Projected Area	172/97 cm <sup>2</sup> - Front/Side (26.7/15 in <sup>2</sup> )
Mechanical Tilt	± 25°
Weight	1.9 kg / 4.1 lbs – single unit 2.7 kg / 5.9 lbs – single unit incl. package 27.7 kg / 61 lbs – carton (10 units)
Single Unit	Retail Box: 305 x 239 x 183 mm (12 x 9.4 x 7.2 inch)
10 Units	Carton Box: 940 x 510 x 335 mm (37 x 20 x 13.2 inch)

### PERFORMANCE

Frequency Range	5180 - 6400 MHz
Gain	14.3 dBi
Azimuth/Elevation BW -3 dB	H 33° / V 33°
Azimuth/Elevation BW -6 dB	H 50° / V 50°
Front-to-Back Ratio	33 dB
VSWR Max 5180-5850 MHz	1.6
VSWR Max 5850-6400 MHz	1.9
Beam Efficiency**	92%
Polarization	Dual Linear H + V
Impedance	50 Ohm

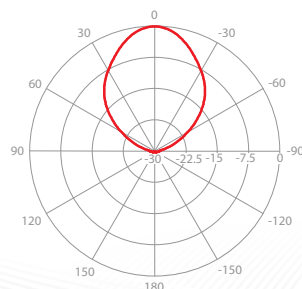
### AZIMUTH PATTERN



V/H - Port Pattern Azimuth 5.6 GHz

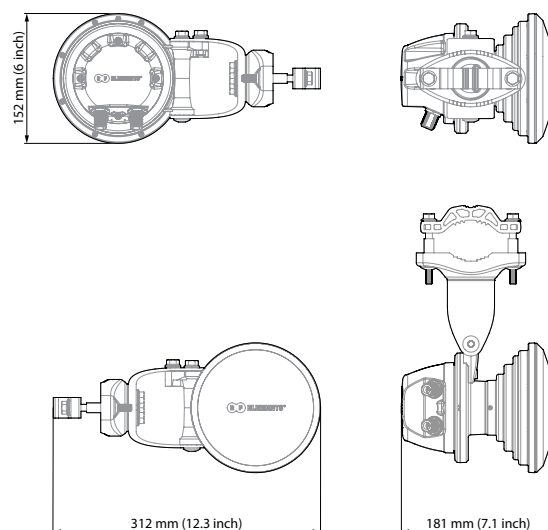
\*\*Beam efficiency defined up to first null

### ELEVATION PATTERN



V/H - Port Pattern Elevation 5.6 GHz

### PRODUCT DIMENSIONS



### GAIN

