Product Datasheet
Product ID: **HG3-CC-S30**

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.

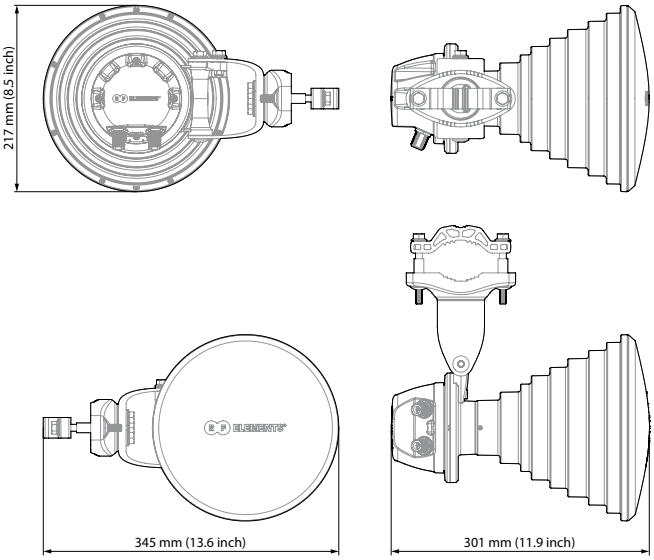
TECHNICAL DATA

Radio Connection	2x N Female Bulkhead Connector
Antenna Type	Horn
Materials	UV Resistant polycarbonate, Polypropylene, Aluminium, Zinc, Stainless Steel
Environmental	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	37/28 N - Front/Side at 160 km/h (100 mi/h)
Effective Projected Area	304/230 cm^2 - Front/Side (47.1/35.7 in^2)
Mechanical Tilt	± 25°
Weight	2.4 kg / 5.2 lbs – single unit 3.7 kg / 8.1 lbs – single unit incl. package 38.1 kg / 83.9 lbs – carton (5 units)
Single Unit	Retail Box: 412 × 277 × 234 mm (16.2 x 10.9 x 9.2 inch)
5 Units	Carton Box: 1190 × 300 × 440 mm (46.8 x 11.8 x 17.3 inch)

PERFORMANCE

Frequency Range	**5180 - 6775 MHz ***
Gain	18.4 dBi
Azimuth/Elevation BW -3 dB	H 21° / V 21°
Azimuth/Elevation BW -6 dB	H 30° / V 30°
Front-to-Back Ratio	37 dB
VSWR Max 5180-5850 MHz	1.6
VSWR Max 5850-6775 MHz	1.9
Beam Efficiency**	94%
Polarization	Dual Linear H + V
Impedance	50 Ohm

PRODUCT DIMENSIONS



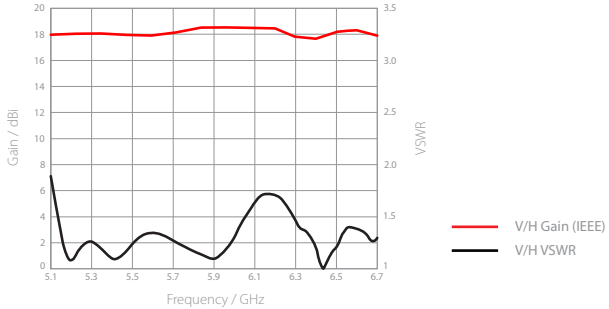
AZIMUTH PATTERN

V/H - Port Pattern Azimuth 5.6 GHz

ELEVATION PATTERN

V/H - Port Pattern Elevation 5.6 GHz

GAIN



* We strongly recommend that users do not operate radios outside of the specified frequency range
**Beam efficiency defined up to first null

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This product was produced under the conditions of a certified management system that meets the requirements of the ISO 9001, ISO 14001 and ISO 45001 standard, while this system was certified by QSCert.