

CH360QS-DG-F2M



2-port small cell antenna, 2x (790-960 and 1695–2200 MHz) with fixed tilt in the low band and manual tilt in the high band. 360° HPBW. Contains internal diplexer and active GPS L1 band antenna

OBSOLETE

This product was discontinued on: March 27, 2020

General Specifications

Antenna Type	Small Cell
Band	Multiband
Color	Light Gray (RAL 7035)
GPS Connector Interface	4.1-9.5 DIN Female
GPS Connector Quantity	1
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Internal GPS frequency band	1,575.42 MHz
Internal GPS VSWR	2
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	ASA
Radiator Material	Aluminum Low loss circuit board
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, diplexed low and high bands	2
RF Connector Quantity, total	2

Dimensions

Length	728 mm 28.661 in
Net Weight, without mounting kit	12.1 kg 26.676 lb
Outer Diameter	305 mm 12.008 in

CH360QS-DG-F2M

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1695 – 2200 MHz 790 – 960 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	790–896	880–960	1695–1880	1850–1990	1920–2200
Gain, dBi	4.6	4.7	8.4	8.9	9
Beamwidth, Horizontal, degrees	360	360	360	360	360
Beamwidth, Vertical, degrees	34.8	34.6	14.7	13.8	12.9
Beam Tilt, degrees	2	2	2–16	2–16	2–16
USLS (First Lobe), dB	12	10	9	10	11
Isolation, Cross Polarization, dB	25	25	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	125	125	125	125	125

Electrical Specifications, BASTA

Frequency Band, MHz	790–896	880–960	1695–1880	1850–1990	1920–2200
Gain by all Beam Tilts, average, dBi	4.4	4.5	8	8.3	8.3
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.6	±0.7	±0.8
Gain by Beam Tilt, average, dBi			2° 8.2 9° 8.1 16° 7.6	2° 8.5 9° 8.3 16° 8.0	2° 8.6 9° 8.4 16° 8.0
Beamwidth, Vertical Tolerance, degrees	±2.3	±3.8	±0.9	±1.1	±1.2
USLS, beampeak to 20° above beampeak, dB	13	11	10	12	12

Mechanical Specifications

Wind Loading @ Velocity, frontal	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)
Wind Loading @ Velocity, maximum	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	121.0 N @ 150 km/h (27.2 lbf @ 150 km/h)

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Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

Width, packed 427 mm | 16.811 in

Depth, packed 407 mm | 16.024 in

Length, packed 998 mm | 39.291 in

Weight, gross 16.8 kg | 37.038 lb

Regulatory Compliance/Certifications

Agency

CE
ISO 9001:2015
REACH-SVHC

Classification

Compliant with the relevant CE product directives
Designed, manufactured and/or distributed under this quality management system
Compliant as per SVHC revision on www.commscope.com/ProductCompliance



* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance