

2-port small cell antenna, 2x 1695–2690 MHz, 65° HPBW, 1x RET with manual override.

- Provides a future-ready antenna solution with flexibility to reassign antenna, for example GSM 1800 service to 2.6GHz LTE at a later date
- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands
- RF technology flexible—suitable for LTE, UMTS, CDMA, GSM, AWS, WiMAX, and other applications from 1.7–2.7 GHz
- Excellent RF pattern control over the full operating band and tilt range for desired coverage and interference containment
- 4.3-10 connector significantly improves PIM consistency and smaller footprint on antenna bottom

General Specifications

Antenna Type Small Cell
Band Single band

Color Light Gray (RAL 7035)

Grounding TypeRF connector inner conductor and body grounded to reflector and

mounting bracket

Performance Note Outdoor usage

Radome Material PVC, UV resistant

Radiator Material Low loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector Location Bottom

RF Connector Quantity, high band 2

RF Connector Quantity, total

Remote Electrical Tilt (RET) Information

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Input Voltage10-30 VdcInternal RETLow band (1)

Power Consumption, idle state, maximum 2 W

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Power Consumption, normal conditions, maximum 13 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

 Width
 170 mm | 6.693 in

 Depth
 105 mm | 4.134 in

 Length
 600 mm | 23.622 in

 Net Weight, without mounting kit
 3.8 kg | 8.378 lb

Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 1695 – 2690 MHz

Polarization ±45°

Electrical Specifications

Frequency Band, MHz	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain, dBi	13.4	13.8	13.9	14.4	14.5
Beamwidth, Horizontal, degrees	70	68	69	63	61
Beamwidth, Vertical, degrees	18.5	17.2	16.4	14.4	13.6
Beam Tilt, degrees	0-20	0-20	0-20	0-20	0-20
USLS (First Lobe), dB	15	17	17	17	14
Front-to-Back Ratio at 180°, dB	27	27	28	28	25
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	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	300	300	300	250	250

Electrical Specifications, BASTA

Frequency Band, MHz	1695-1880	1850-1990	1920-2200	2300-2500	2500-2690
Gain by all Beam Tilts, average, dBi	13.1	13.5	13.5	14.1	14.1
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.6	±0.6	±0.6	±0.6

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Gain by Beam Tilt, average, dBi	0° 13.0 10° 13.2 20° 13.1	0° 13.5 10° 13.5 20° 13.3	0° 13.5 10° 13.5 20° 13.3	0° 14.1 10° 14.2 20° 13.3	0° 14.2 10° 14.2 20° 13.4
Beamwidth, Horizontal Tolerance, degrees	±3.2	±2.7	±3.7	±4.0	±4.9
Beamwidth, Vertical Tolerance, degrees	±1.4	±1.5	±1.2	±1	±1
USLS, beampeak to 20° above beampeak, dB	15	17	17	17	14
Front-to-Back Total Power at 180° ± 30°, dB	24	24	24	25	23
CPR at Boresight, dB	19	20	19	16	15
CPR at Sector, dB	16	15	14	5	7

Mechanical Specifications

Wind Loading @ Velocity, frontal 118.0 N @ 150 km/h (26.5 lbf @ 150 km/h) 48.0 N @ 150 km/h (10.8 lbf @ 150 km/h) Wind Loading @ Velocity, lateral Wind Loading @ Velocity, rear 151.0 N @ 150 km/h (33.9 lbf @ 150 km/h)

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

Packaging and Weights

Width, packed 302 mm | 11.89 in Depth, packed 212 mm | 8.346 in Length, packed 726 mm | 28.583 in Weight, gross 8.9 kg | 19.621 lb

Regulatory Compliance/Certifications

Classification Agency

CE Compliant with the relevant CE product directives

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



Included Products

DB390 Pipe Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Use for narrow panel

antennas. Includes two pipe mounts.

Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members DB5098

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* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance