

10-port small cell antenna, 4x 1695–2690, 4x 3400-3800 and 2x 5150-5925 MHz. 65° HPBW, Internal RET and SBT

#### General Specifications

Antenna Type Small Cell
Band Multiband

**Grounding Type**RF connector inner conductor and body grounded to reflector and mounting

bracket

Performance Note Outdoor usage | Wind loading figures are validated by wind tunnel

measurements described in white paper WP-112534-EN

Radome Material ASA, UV stabilized

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 10
RF Connector Quantity, total 10

### Remote Electrical Tilt (RET) Information

**RET Interface** 8-pin DIN Male

**RET Interface, quantity** 1 male

Input Voltage 10-30 Vdc

**Internal Bias Tee** Port 1

Internal RET High band (1)

Power Consumption, active state, maximum 1 W
Power Consumption, idle state, maximum 10 W

Protocol 3GPP/AISG 2.0 (Single RET)

**Dimensions** 

 Length
 600 mm | 23.622 in

 Net Weight, without mounting kit
 5.9 kg | 13.007 lb

Page 1 of 4



**Outer Diameter** 

200 mm | 7.874 in

#### 5 GHz Port Power Table

5 GHz FCC Power Requirements							
U-NII Band	U-NII 1	U-NII 2A	U-NII 2C	U-NII 3			
Frequency (MHz)	5150 - 5250	5250 - 5350	5470 - 5725	5725 - 5850			
Max Input power per port to align with FCC Title 47 Part 15 (Watts)	0.5	0.125	0.125	0.5			

### Port Configuration



### **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2690 MHz | 3400 – 3800 MHz | 5150 – 5925 MHz

Polarization ±45°

**Total Input Power, maximum** 300 W @ 50 °C

**Electrical Specifications** 

Frequency Band, MHz 1695-1920 1920-2180 2300-2690 3400-3800 5150-5925

Page 2 of 4

Gain, dBi	11.6	12.3	12.8	9.8	4.2
Beamwidth, Horizontal, degrees	85	74	70	71	73
Beamwidth, Vertical, degrees	22.9	19.7	16	32.9	26.3
Beam Tilt, degrees	2-10	2-10	2-10	7	4
USLS (First Lobe), dB	14	16	15	11	13
Front-to-Back Ratio at 180°, dB	25	28	26	25	26
Isolation, Cross Polarization, dB	25	25	25	25	25
Isolation, Inter-band, 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	-150		
Input Power per Port at 50°C, maximum, watts	75	75	75	35	5

### Electrical Specifications, BASTA

Frequency Band, MHz	1695-1920	1920-2180	2300-2690	3400-3800	5150-5925
Gain by all Beam Tilts, average, dBi	11.2	11.9	12.3	9.4	3.2
Gain by all Beam Tilts Tolerance, dB	±0.7	±0.4	±0.5	±0.8	±1.1
Gain by Beam Tilt, average, dBi	2° 11.0 6° 11.2 10° 11.2	2° 11.8 6° 11.9 10° 12.0	2 °   12.1 6 °   12.4 10 °   12.4		
Beamwidth, Horizontal Tolerance, degrees	±8.4	±8.2	±8.5	±12	±21
Beamwidth, Vertical Tolerance, degrees	±2.4	±2	±1.3	±2.6	±4.8
Front-to-Back Total Power at 180° ± 30°, dB	18	22	20	18	22
CPR at Boresight, dB	14	17	16	15	10
CPR at Sector, dB	10	9	6	3	5

### Mechanical Specifications

Mechanical Tilt Range 0°-18°

**Wind Loading @ Velocity, frontal** 90.0 N @ 150 km/h (20.2 lbf @ 150 km/h)

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

**COMMSCOPE®** 

### Packaging and Weights

 Width, packed
 320 mm | 12.598 in

 Depth, packed
 300 mm | 11.811 in

 Length, packed
 850 mm | 33.465 in

 Weight, gross
 8.5 kg | 18.739 lb

### Regulatory Compliance/Certifications

#### Agency Classification

CHINA-ROHS Above maximum concentration value

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

ROHS Compliant/Exempted UK-ROHS Compliant/Exempted





#### \* Footnotes

**Performance Note** Severe environmental conditions may degrade optimum performance

