

2-port sector antenna, 2x 694–960 MHz, 65° HPBW, 1x RET.

• Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

General Specifications

Antenna Type Sector

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 MaterialFiberglass, UV resistantRadiator MaterialLow loss circuit board

Reflector Material Aluminum

RF Connector Interface 4.3-10 Female

RF Connector LocationBottom

RF Connector Quantity, low band 2
RF Connector Quantity, total 2

Remote Electrical Tilt (RET) Information

RET Hardware CommRET v2

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, active state, maximum 10 W Power Consumption, idle state, maximum 2 W

Protocol 3GPP/AISG 2.0 (Single RET)

Dimensions

Width 320 mm | 12.598 in

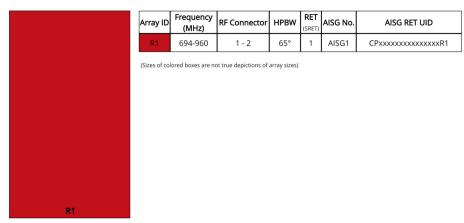
COMMSCOPE®

Depth 140 mm | 5.512 in

Length 2008 mm | 79.055 in

Net Weight, antenna only 19.3 kg | 42.549 lb

Array Layout



Port Configuration



Electrical Specifications

Impedance 50 ohm

Operating Frequency Band 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 500 W

Electrical Specifications

	R1	R1	R1
Frequency Band, MHz	698-806	790-894	890-960
RF Port	1,2	1,2	1,2
Gain, dBi	15.9	16.4	16.8
Beamwidth, Horizontal, degrees	69	66	63
Beamwidth, Vertical, degrees	11.5	10.2	9.4
Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	22	21	17
Front-to-Back Ratio, Copolarization 180 $^{\circ}$ ± 30 $^{\circ}$, dB	29	29	28
Isolation, Cross Polarization, dB	28	28	28
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	300	300	300

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-894	890-960
Gain by all Beam Tilts, average, dBi	15.7	16.2	16.6
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.3	±0.3
Beamwidth, Horizontal Tolerance, degrees	±2	±3	±1
Beamwidth, Vertical Tolerance, degrees	±0.9	±0.7	±0.4
CPR at Boresight, dB	29	30	28

Mechanical Specifications

Wind Loading @ Velocity, frontal	325.0 N @ 150 km/h (73.1 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	295.0 N @ 150 km/h (66.3 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	711.0 N @ 150 km/h (159.8 lbf @ 150 km/h)
Wind Speed, maximum	241 km/h (150 mph)

Packaging and Weights



 Width, packed
 415 mm | 16.339 in

 Depth, packed
 235 mm | 9.252 in

 Length, packed
 2285 mm | 89.961 in

 Weight, gross
 29 kg | 63.934 lb

Regulatory Compliance/Certifications

Agency Classification

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



* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance