

2-port sector antenna, 2x 694–960 MHz, 85° 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 Material
 PVC, UV resistant

Radiator MaterialAluminumReflector MaterialAluminumRF Connector Interface4.3-10 Female

RF Connector Location Bottom

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

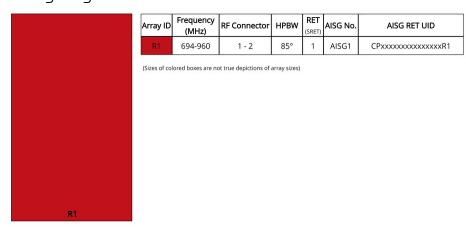
COMMSCOPE®

Depth 166 mm | 6.535 in

Length 1495 mm | 58.858 in

Net Weight, antenna only 12 kg | 26.455 lb

Array Layout



Port Configuration



Electrical Specifications



Impedance 50 ohm

Operating Frequency Band 694 – 960 MHz

Polarization ±45°

Total Input Power, maximum 400 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	14.2	14.8	14.8
Beamwidth, Horizontal, degrees	81	77	75
Beamwidth, Vertical, degrees	14.4	13.1	12.1
Beam Tilt, degrees	2-12	2-12	2-12
USLS (First Lobe), dB	17	18	18
Front-to-Back Ratio, Copolarization 180° \pm 30°, dB	24	25	25
Isolation, Cross Polarization, dB	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150
Input Power per Port, maximum, watts	200	200	200

Electrical Specifications, BASTA

Frequency Band, MHz	698-806	790-894	890-960
Gain by all Beam Tilts, average, dBi	14	14.4	14.6
Gain by all Beam Tilts Tolerance, dB	±0.3	±0.4	±0.4
Beamwidth, Horizontal Tolerance, degrees	±2	±3	±2
Beamwidth, Vertical Tolerance, degrees	±0.8	±0.6	±0.5
CPR at Boresight, dB	21	23	22

Mechanical Specifications

Wind Loading @ Velocity, frontal	604.0 N @ 150 km/h (135.8 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	200.0 N @ 150 km/h (45.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	662.0 N @ 150 km/h (148.8 lbf @ 150 km/h)
Wind Speed, maximum	200 km/h (124 mph)

Packaging and Weights



 Width, packed
 450 mm | 17.717 in

 Depth, packed
 280 mm | 11.024 in

 Length, packed
 1790 mm | 70.472 in

 Weight, gross
 21.8 kg | 48.061 lb

Regulatory Compliance/Certifications

Agency Classification

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

UK-ROHS Compliant



* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

