

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

- All Internal RET actuators are connected in "Cascaded SRET" configuration
- 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 Type**RF 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 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



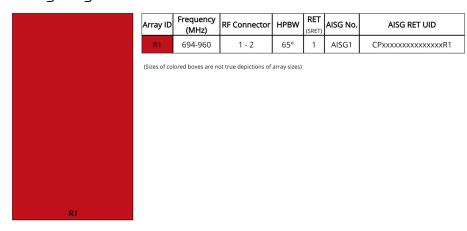
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**Depth** 140 mm | 5.512 in

**Length** 2500 mm | 98.425 in

Net Weight, antenna only 22.3 kg | 49.163 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	694-790	790-890	890-960
RF Port	1,2	1,2	1,2
Gain, dBi	16.5	17.2	17.4
Beamwidth, Horizontal, degrees	69	66	64
Beamwidth, Vertical, degrees	8.9	7.8	7
Beam Tilt, degrees	0-10	0-10	0-10
USLS (First Lobe), dB	21	21	18
Front-to-Back Ratio, Copolarization 180° $\pm$ 30°, dB	31	32	32
CPR at Boresight, dB	22	25	27
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	694-790	790-890	890-960
Gain by all Beam Tilts, average, dBi	16.2	17	17.1
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.4
Beamwidth, Horizontal Tolerance, degrees	±2	±2	±1
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.5	±0.4
Front-to-Back Total Power at 180° ± 30°, dB	25	27	26
CPR at Sector, dB	13	13	11

## Mechanical Specifications

Wind Loading @ Velocity, frontal	418.0 N @ 150 km/h (94.0 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral	378.0 N @ 150 km/h (85.0 lbf @ 150 km/h)
Wind Loading @ Velocity, rear	915.0 N @ 150 km/h (205.7 lbf @ 150 km/h)



### Packaging and Weights

 Width, packed
 425 mm | 16.732 in

 Depth, packed
 235 mm | 9.252 in

 Length, packed
 2780 mm | 109.449 in

 Weight, gross
 33.4 kg | 73.634 lb

#### Regulatory Compliance/Certifications

#### Agency Classification

CHINA-ROHS Below maximum concentration value

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

ROHS Compliant UK-ROHS Compliant



#### \* Footnotes

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

