

#### 2-port sector antenna, 2x 1710–2180 MHz, 65° HPBW, RET compatible

- Superior azimuth tracking and pattern symmetry to minimize any sector overlap
- Rugged, reliable design with excellent passive intermodulation suppression

This product will be discontinued on: March 30, 2024

### 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 Material
 PVC, UV resistant

Radiator Material Low loss circuit board

Reflector Material Aluminum

**RF Connector Interface** 7-16 DIN Female

**RF Connector Location**Bottom

RF Connector Quantity, high band 2
RF Connector Quantity, total 2

Remote Electrical Tilt (RET) Information

Model with Factory Installed AISG 2.0 Actuator HBX-6516DS-A1M

Dimensions

 Width
 166 mm | 6.535 in

 Depth
 83 mm | 3.268 in

 Length
 1306 mm | 51.417 in

 Net Weight, without mounting kit
 4.7 kg | 10.362 lb

Array Layout





Array	Freq (MHz)	Conns
B1	1710-2180	1-2

Bottom

(Sizes of colored boxes are not true depictions of array sizes)

# **Electrical Specifications**

**Impedance** 50 ohm

**Operating Frequency Band** 1710 – 2180 MHz

Polarization ±45°

### Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1990	1920-2180
Gain, dBi	17.4	17.6	17.8
Beamwidth, Horizontal, degrees	66	64	66
Beamwidth, Vertical, degrees	7.4	6.9	6.4
Beam Tilt, degrees	0-10	0-10	0-10
USLS (First Lobe), dB	19	19	19
Front-to-Back Ratio at 180°, dB	35	35	35
Isolation, Cross Polarization, dB	30	30	30
VSWR   Return loss, dB	1.4   15.6	1.4   15.6	1.4   15.6
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350

# Electrical Specifications, BASTA

Frequency Band, MHz	1710-1880	1850-1990	1920-2180
Gain by all Beam Tilts, average, dBi	17.1	17.4	17.4
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3	±0.5

Page 2 of 4



Gain by Beam Tilt, average, dBi	0° 17.0 5° 17.2 10° 16.9	0° 17.3 5° 17.5 10° 17.0	0° 17.4 5° 17.3 10° 17.1
Beamwidth, Horizontal Tolerance, degrees	±3.8	±2.4	±5.2
Beamwidth, Vertical Tolerance, degrees	±0.4	±0.4	±0.6
USLS, beampeak to 20° above beampeak, dB	18	18	17
Front-to-Back Total Power at 180° ± 30°, dB	26	27	26
CPR at Boresight, dB	17	19	20
CPR at Sector, dB	9	7	7

### Mechanical Specifications

 Wind Loading @ Velocity, frontal
 257.0 N @ 150 km/h (57.8 lbf @ 150 km/h)

 Wind Loading @ Velocity, lateral
 67.0 N @ 150 km/h (15.1 lbf @ 150 km/h)

 Wind Loading @ Velocity, rear
 310.0 N @ 150 km/h (69.7 lbf @ 150 km/h)

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

### Packaging and Weights

 Width, packed
 277 mm | 10.906 in

 Depth, packed
 188 mm | 7.402 in

 Length, packed
 1442 mm | 56.772 in

 Weight, gross
 11.5 kg | 25.353 lb

### Regulatory Compliance/Certifications

#### Agency Classification

CE Compliant with the relevant CE product directives

CHINA-ROHS Below maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



#### 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.

Page 3 of 4



DB5098E

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

\* Footnotes

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