

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 TypeRF 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





Arra	y F	req (MHz)	Conns
В1	1	710-2180	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

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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.

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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



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.

Product Classification

Product Type Pipe mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum114.3 mm | 4.5 inCompatible Diameter, minimum61 mm | 2.402 inWeight, net2 kg | 4.409 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 2.1 kg | 4.63 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
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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DB390





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

Product Classification

Product Type Downtilt mounting kit

General Specifications

ApplicationOutdoorColorSilver

Dimensions

Compatible Diameter, maximum114.3 mm | 4.5 inCompatible Diameter, minimum61 mm | 2.402 inWeight, net1.2 kg | 2.646 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity

Weight, gross 1.4 kg | 3.086 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

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