

HBX-6516DS-VTM | HBX-6516DS-A1M



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

OBSOLETE

This product was 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, mid band | 0 |
| RF Connector Quantity, low band | 0 |
| 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 |

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Net Weight, without mounting kit

4.7 kg | 10.362 lb

Array Layout



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 |

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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.andrew.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. |
| 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 |
|------------------|---|

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

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 2 kg | 4.409 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

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.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



DB5098E



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

Product Classification

Product Type Downtilt mounting kit

General Specifications

Application Outdoor

Color Silver

Dimensions

Compatible Diameter, maximum 114.3 mm | 4.5 in

Compatible Diameter, minimum 61 mm | 2.402 in

Weight, net 1.2 kg | 2.646 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

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.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

DB5098E

