

HBXX-6516DS-VTM | HBXX-6516DS-A2M



4-port sector antenna, 4x 1710–2180 MHz, 65° HPBW, RET compatible

- Each DualPol® array can be independently adjusted for greater flexibility
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Ideal choice for site collocations and tough zoning restrictions
- Great solution to maximize network coverage and capacity

OBSOLETE

This product was discontinued on: December 31, 2023

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 |
| RF Connector Interface | 7-16 DIN Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 4 |
| RF Connector Quantity, mid band | 0 |
| RF Connector Quantity, low band | 0 |
| RF Connector Quantity, total | 4 |

Remote Electrical Tilt (RET) Information

| | |
|---|-----------------|
| Model with Factory Installed AISG 2.0 Actuator | HBXX-6516DS-A2M |
|---|-----------------|

Dimensions

| | |
|---------------|---------------------|
| Width | 305 mm 12.008 in |
| Depth | 166 mm 6.535 in |
| Length | 1297 mm 51.063 in |

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Net Weight, without mounting kit 13.9 kg | 30.644 lb

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 | 17.7 | 18 | 18 |
| Beamwidth, Horizontal, degrees | 67 | 65.8 | 64.2 |
| Beamwidth, Vertical, degrees | 7.5 | 7 | 6.6 |
| Beam Tilt, degrees | 0–10 | 0–10 | 0–10 |
| USLS (First Lobe), dB | 18 | 18 | 18 |
| Front-to-Back Ratio at 180°, dB | 30 | 30 | 30 |
| CPR at Boresight, dB | 22 | 22 | 21 |
| CPR at Sector, dB | 8 | 9 | 9 |
| 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 |

Mechanical Specifications

Wind Loading @ Velocity, frontal 419.0 N @ 150 km/h (94.2 lbf @ 150 km/h)
Wind Loading @ Velocity, lateral 113.0 N @ 150 km/h (25.4 lbf @ 150 km/h)
Wind Loading @ Velocity, rear 488.0 N @ 150 km/h (109.7 lbf @ 150 km/h)
Wind Speed, maximum 241 km/h (150 mph)

Packaging and Weights

Width, packed 402 mm | 15.827 in
Depth, packed 292 mm | 11.496 in
Length, packed 1427 mm | 56.181 in
Weight, gross 23.5 kg | 51.809 lb

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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

- 600899A-2 – Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

600899A-2



Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

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 3.9 kg | 8.598 lb

Material Specifications

Material Type Galvanized steel

Packaging and Weights

Included Brackets | Hardware

Packaging quantity 1

Weight, gross 4.2 kg | 9.259 lb

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