



HBXX-6516DS-VTM

Andrew® Quad Port Teletilt® Antenna, 1710–2180 MHz, 65° horizontal beamwidth, 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

Electrical Specifications

| Frequency Band, MHz | 1710–1880 | 1850–1990 | 1920–2180 |
|--------------------------------------|------------|------------|------------|
| Gain, dBi | 17.7 | 18.0 | 18.0 |
| Beamwidth, Horizontal, degrees | 67 | 66 | 64 |
| Beamwidth, Vertical, degrees | 7.5 | 7.0 | 6.6 |
| Beam Tilt, degrees | 0–10 | 0–10 | 0–10 |
| USLS, 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, 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 |
| Polarization | ±45° | ±45° | ±45° |
| Impedance | 50 ohm | 50 ohm | 50 ohm |

Electrical Specifications, BASTA*

| Frequency Band, MHz | 1710–1880 | 1850–1990 | 1920–2180 |
|---|-------------|-------------|-------------|
| Gain by all Beam Tilts, average, dBi | 17.2 | 17.2 | 17.5 |
| Gain by all Beam Tilts Tolerance, dB | ±0.3 | ±0.3 | ±0.5 |
| | 0 ° 17.0 | 0 ° 17.1 | 0 ° 17.4 |
| Gain by Beam Tilt, average, dBi | 5 ° 17.3 | 5 ° 17.4 | 5 ° 17.7 |
| | 10 ° 17.0 | 10 ° 17.0 | 10 ° 17.2 |
| Beamwidth, Horizontal Tolerance, degrees | ±2.7 | ±2.3 | ±3.5 |
| Beamwidth, Vertical Tolerance, degrees | ±0.5 | ±0.4 | ±0.4 |
| USLS, dB | 18 | 19 | 19 |
| Front-to-Back Total Power at 180° ± 30°, dB | 26 | 26 | 26 |
| CPR at Boresight, dB | 22 | 22 | 22 |
| CPR at Sector, dB | 9 | 9 | 9 |

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

General Specifications

| | |
|--------------------------|----------------------|
| Antenna Brand | Andrew® |
| Antenna Type | DualPol® quad |
| Band | Single band |
| Brand | DualPol® Teletilt® |
| Operating Frequency Band | 1710 – 2180 MHz |

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POWERED BY



Mechanical Specifications

| | |
|------------------------------|---|
| Color | Light gray |
| Lightning Protection | dc Ground |
| Radiator Material | Low loss circuit board |
| Radome Material | PVC, UV resistant |
| RF Connector Interface | 7-16 DIN Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, total | 4 |
| Wind Loading, maximum | 419.0 N @ 150 km/h 94.2 lbf @ 150 km/h |
| Wind Speed, maximum | 241.0 km/h 149.8 mph |

Dimensions

| | |
|------------|---------------------|
| Depth | 166.0 mm 6.5 in |
| Length | 1294.0 mm 50.9 in |
| Width | 305.0 mm 12.0 in |
| Net Weight | 13.9 kg 30.6 lb |

Remote Electrical Tilt (RET) Information

| | |
|--|-----------------|
| Model with Factory Installed AISG 2.0 Actuator | HBXX-6516DS-A2M |
| RET System | Teletilt® |

Regulatory Compliance/Certifications

| | |
|----------------------------|--|
| Agency | Classification |
| RoHS 2011/65/EU | Compliant by Exemption |
| China RoHS SJ/T 11364-2006 | Above Maximum Concentration Value (MCV) |
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |



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.