

HWXX-6516DS1-VTMV2



4-port sector antenna, 4x 1710–2690 MHz, 65° HPBW, RET compatible

- Provides a future-ready antenna solution with flexibility to reassign antenna, for example GSM 1800 service to 2.6GHz LTE at a later date
- Employs state-of-the-art ultra wideband technology providing excellent RF performance in all bands
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

OBSOLETE

This product was discontinued on: November 30, 2023

General Specifications

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|---|--|
| 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 | 4.3-10 Female |
| RF Connector Location | Bottom |
| RF Connector Quantity, high band | 4 |
| RF Connector Quantity, total | 4 |

Dimensions

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|---|---------------------|
| Width | 305 mm 12.008 in |
| Depth | 118 mm 4.646 in |
| Length | 1390 mm 54.724 in |
| Net Weight, without mounting kit | 9.8 kg 21.605 lb |

Electrical Specifications

| | |
|------------------|--------|
| Impedance | 50 ohm |
|------------------|--------|

HWXX-6516DS1-VTMV2

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|-----------------------------------|-----------------|
| Operating Frequency Band | 1710 – 2690 MHz |
| Polarization | ±45° |
| Total Input Power, maximum | 450 W @ 50 °C |

Electrical Specifications

| Frequency Band, MHz | 1710–1880 | 1850–1990 | 1920–2170 | 2300–2500 | 2500–2690 |
|---|-----------|-----------|-----------|-----------|-----------|
| Gain, dBi | 17.4 | 17.7 | 18 | 18.2 | 18.4 |
| Beamwidth, Horizontal, degrees | 66 | 65 | 65 | 62.5 | 62.1 |
| Beamwidth, Vertical, degrees | 6.7 | 6.4 | 6.1 | 5.3 | 5.1 |
| Beam Tilt, degrees | 0–10 | 0–10 | 0–10 | 0–10 | 0–10 |
| USLS (First Lobe), dB | 16 | 16 | 17 | 20 | 21 |
| Front-to-Back Ratio at 180°, dB | 29 | 31 | 31 | 31 | 32 |
| Isolation, Cross Polarization, dB | 30 | 30 | 30 | 30 | 30 |
| Isolation, Inter-band, dB | 28 | 28 | 28 | 28 | 28 |
| VSWR Return loss, dB | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 | 1.5 14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc | -150 | -150 | -150 | -150 | -150 |
| Input Power per Port at 50°C, maximum, watts | 300 | 300 | 300 | 300 | 300 |

Electrical Specifications, BASTA

| Frequency Band, MHz | 1710–1880 | 1850–1990 | 1920–2170 | 2300–2500 | 2500–2690 |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Gain by all Beam Tilts, average, dBi | 17.2 | 17.4 | 17.8 | 18 | 18.3 |
| Gain by all Beam Tilts Tolerance, dB | ±0.3 | ±0.4 | ±0.5 | ±0.3 | ±0.3 |
| Gain by Beam Tilt, average, dBi | 0° 17.0 5° 17.3 10° 17.1 | 0° 17.3 5° 17.4 10° 17.2 | 0° 17.8 5° 17.9 10° 17.6 | 0° 17.8 5° 18.1 10° 18.0 | 0° 18.3 5° 18.4 10° 17.9 |
| Beamwidth, Horizontal Tolerance, degrees | ±2.7 | ±2.7 | ±2.1 | ±2.1 | ±3 |
| Beamwidth, Vertical Tolerance, degrees | ±0.3 | ±0.2 | ±0.4 | ±0.2 | ±0.2 |
| USLS, beampeak to 20° above beampeak, dB | 16 | 17 | 17 | 20 | 18 |
| Front-to-Back Total Power at 180° ± 30°, dB | 25 | 26 | 26.5 | 27.4 | 25.9 |

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|-----------------------------|----|----|----|----|----|
| CPR at Boresight, dB | 16 | 17 | 16 | 19 | 18 |
| CPR at Sector, dB | 15 | 14 | 14 | 9 | 10 |

Mechanical Specifications

| | |
|---|---|
| Mechanical Tilt Range | 0°–19° |
| Wind Loading @ Velocity, frontal | 512.0 N @ 150 km/h (115.1 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 120.0 N @ 150 km/h (27.0 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear | 560.0 N @ 150 km/h (125.9 lbf @ 150 km/h) |
| Wind Speed, maximum | 241 km/h (150 mph) |

Packaging and Weights

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|-----------------------|---------------------|
| Width, packed | 413 mm 16.26 in |
| Depth, packed | 249 mm 9.803 in |
| Length, packed | 1525 mm 60.039 in |
| Weight, gross | 18 kg 39.683 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CE | Compliant with the relevant CE product directives |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |



Included Products

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| 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. |
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* Footnotes

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