

W2X-6516DS-VTM



Single Band Antenna, 2300–2700 MHz, 65° horizontal beamwidth, RET compatible variable electrical tilt

- Exceptional pattern shaping for optimizing coverage and minimizing co-site interference in WiMAX systems
- High front-to-back ratio aids in minimizing co-channel interference

OBSOLETE

This product was discontinued on: December 31, 2016

Replaced By

HWX-6516DS1-VTM 2-port sector antenna, 2x 1710–2690 MHz, 65° HPBW, RET compatible

Electrical Specifications

Frequency Band, MHz	2300–2500	2500–2700
Gain, dBi	18.3	18.8
Beamwidth, Horizontal, degrees	62	60
Beamwidth, Vertical, degrees	6.3	5.9
Beam Tilt, degrees	0–10	0–10
USLS (First Lobe), dB	18	17
Front-to-Back Ratio at 180°, dB	36	36
CPR at Boresight, dB	17	21
CPR at Sector, dB	9	6
Isolation, Cross Polarization, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	250	250
Polarization	±45°	±45°
Impedance	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	2300–2500	2500–2700
Gain by all Beam Tilts, average, dBi	17.6	18.1
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.3
Gain by Beam Tilt, average, dBi	0 ° 17.4 5 ° 17.6 10 ° 17.5	0 ° 18.0 5 ° 18.2 10 ° 18.0
Beamwidth, Horizontal Tolerance, degrees	±3.6	±0.2
Beamwidth, Vertical Tolerance, degrees	±0.3	±0.2

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USLS, beampeak to 20° above beampeak, dB	18	17
Front-to-Back Total Power at 180° ± 30°, dB	24	23
CPR at Boresight, dB	17	21
CPR at Sector, dB	9	6

* 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

Operating Frequency Band	2300 – 2700 MHz
Antenna Type	Sector
Band	Single band
Performance Note	Outdoor usage

Mechanical Specifications

RF Connector Quantity, total	2
RF Connector Quantity, high band	2
RF Connector Interface	7-16 DIN Female
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Low loss circuit board
Radome Material	PVC, UV resistant
RF Connector Location	Bottom
Wind Loading, maximum	234.4 N @ 150 km/h 52.7 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	1215.5 mm 47.9 in
Width	166.4 mm 6.6 in
Depth	83.1 mm 3.3 in
Net Weight, without mounting kit	4.2 kg 9.3 lb

Packed Dimensions

Length	1369.0 mm 53.9 in
Width	287.0 mm 11.3 in
Depth	247.0 mm 9.7 in
Shipping Weight	11.9 kg 26.2 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system



Included Products

602030WM — Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 114 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