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

This product will be 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	4
RF Connector Quantity, total	4

Remote Electrical Tilt (RET) Information

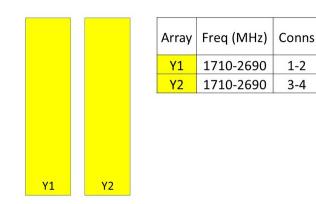
Model with Factory Installed AISG 2.0 Actuator	HWXX-6516DS1-A2M
Dimensions	
Width	305 mm 12.008 in
Depth	118 mm 4.646 in
Length	1390 mm 54.724 in
Net Weight, without mounting kit	10.2 kg 22.487 lb

Page 1 of 6

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Array Layout



Bottom

(Sizes of colored boxes are not true depictions of array sizes)

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	1710 – 2690 MHz
Polarization	±45°

Electrical Specifications

Frequency Band, MHz	1710-1880	1850-1990	1920-2170	2300-2500	2500-2690
Gain, dBi	17.4	17.6	17.9	18.6	18.6
Beamwidth, Horizontal, degrees	66	65	65	63	62
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	16	18	18
Front-to-Back Ratio at 180°, dB	27	30	30	29	29
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	-153	-153	-153	-153	-153

Page 2 of 6

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HWXX-6516DS1-VTM | HWXX-6516DS1-A2M

Input Power per Port, maximum, watts	350	350	350	350	350
Electrical Specification	ons, 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	16	17	20	21
Front-to-Back Total Power at 180° ± 30°, dB	25	26	26.5	27.4	25.9
CPR at Boresight, dB	16	17	16	19	17
CPR at Sector, dB	15	14	14	9	10

Mechanical Specifications

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

Width, packed	413 mm 16.26 in
Depth, packed	249 mm 9.803 in
Length, packed	1702 mm 67.008 in
Weight, gross	20.7 kg 45.636 lb

Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value

Page 3 of 6

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HWXX-6516DS1-VTM | HWXX-6516DS1-A2M

ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.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

Page 4 of 6

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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.

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

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.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

Page 5 of 6

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Page 6 of 6

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