



Antenna 2200 0L 2M 1.5m

80020622

Capacity

Compact

Coverage

65° | 2x 1695–2690 MHz | 18.0 dBi

Electrical downtilt set by hand or by optional RCU (Remote Control Unit)



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Left side, midband		Y1, connector 1–2			
Frequency Range	MHz	1695 – 1880	1920 – 2180	2300 – 2400	2490 – 2690
Gain at mid Tilt	dBi	17.4	18.0	18.6	18.8
Gain over all Tilts	dBi	17.3 ± 0.4	17.9 ± 0.4	18.3 ± 0.4	18.6 ± 0.4
Horizontal Pattern:					
Azimuth Beamwidth	°	66 ± 3.2	63 ± 2.6	60 ± 3.5	56 ± 2.6
Front-to-Back Ratio, Total Power, ± 30°	dB	> 24	> 24	> 26	> 23
Cross Polar Discrimination at Boresight	dB	> 22	> 22	> 22	> 18
Cross Polar Discrimination over Sector	dB	> 12.5	> 10.0	> 9.5	> 13.0
Vertical Pattern:					
Elevation Beamwidth	°	6.8 ± 0.5	6.1 ± 0.5	5.2 ± 0.3	4.9 ± 0.3
Electrical Downtilt continuously adjustable	°	2.0 – 14.0			
Tilt Accuracy	°	< 0.3	< 0.3	< 0.2	< 0.2
First Upper Side Lobe Suppression	dB	> 20	> 20	> 20	> 20
Upper Side Lobe Suppression, 20° Sector above Main Beam	dB	> 17	> 17	> 16	> 16
Cross Polar Isolation	dB	> 30			
Port to Port Isolation	dB	> 30 (Y1 // Y2)			
Max. Effective Power per Port	W	250 (at 50 °C ambient temperature)			
Max. Effective Power Ports Y1	W	500 (at 50 °C ambient temperature)			

Values based on NGMN-P-BASTA (version 9.6) requirements.

Right side, midband		Y2, connector 3–4			
Frequency Range	MHz	1695 – 1880	1920 – 2180	2300 – 2400	2490 – 2690
Gain at mid Tilt	dBi	17.2	17.9	18.6	18.9
Gain over all Tilts	dBi	17.1 ± 0.4	17.8 ± 0.5	18.4 ± 0.4	18.7 ± 0.5
Horizontal Pattern:					
Azimuth Beamwidth	°	68 ± 3.8	64 ± 4.1	59 ± 2.6	55 ± 2.0
Front-to-Back Ratio, Total Power, ± 30°	dB	> 25	> 26	> 25	> 23
Cross Polar Discrimination at Boresight	dB	> 22	> 22	> 22	> 19
Cross Polar Discrimination over Sector	dB	> 13.5	> 11.0	> 9.5	> 12.0
Vertical Pattern:					
Elevation Beamwidth	°	6.8 ± 0.4	6.0 ± 0.5	5.2 ± 0.3	4.8 ± 0.2
Electrical Downtilt continuously adjustable	°	2.0 – 14.0			
Tilt Accuracy	°	< 0.3	< 0.3	< 0.2	< 0.2
First Upper Side Lobe Suppression	dB	> 19	> 19	> 20	> 20
Upper Side Lobe Suppression, 20° Sector above Main Beam	dB	> 18	> 17	> 17	> 15
Cross Polar Isolation	dB	> 30			
Port to Port Isolation	dB	> 30 (Y2 // Y1)			
Max. Effective Power per Port	W	250 (at 50 °C ambient temperature)			
Max. Effective Power Ports Y2	W	500 (at 50 °C ambient temperature)			

Values based on NGMN-P-BASTA (version 9.6) requirements.

Electrical specifications, all ports

Impedance	Ω	50
VSWR		< 1.5
Return Loss	dB	> 14
Interband Isolation	dB	> 30
Passive Intermodulation	dBc	< -153 (2 x 43 dBm carrier)
Polarization	°	-45, +45
Max. Effective Power for the Antenna	W	700 (at 50 °C ambient temperature)

Values based on NGMN-P-BASTA (version 9.6) requirements.

Mechanical specifications

Input	4x 4.3-10 female	
Connector Position	bottom	
Adjustment Mechanism	2x, Position bottom continuously adjustable	
Wind load (at Rated Wind Speed: 150 km/h)	N lbf	Frontal: 565 127 Maximal: 620 139
Max. Wind Velocity	km/h mph	200 124
Height / Width / Depth	mm inches	1471 / 275 / 86 57.9 / 10.8 / 3.4
Category of Mounting Hardware	M (Medium)	
Weight	kg lb	13.0 / 15.2 (clamps incl.) 28.7 / 33.5 (clamps incl.)
Packing Size	mm inches	1791 / 298 / 119 70.5 / 11.7 / 4.7
Scope of Supply	Panel and 2 units of clamps for 42–115 mm 1.7–4.5 inches diameter	

Accessories (order separately if required)

Product No.	Description	Remarks mm inches	Units per antenna
731651	1 clamp	Mast diameter: 28 – 60 1.1 – 2.4	2
85010002	1 clamp	Mast diameter: 110 – 220 4.3 – 8.7	2
85010003	1 clamp	Mast diameter: 210 – 380 8.3 – 15.0	2
737978	1 downtilt kit	Downtilt angle: 0°–15°	1

Accessories (included in the scope of supply)

Product No.	Description	Remarks mm inches	Units per antenna
738546	1 clamp	Mast diameter: 42 – 115 1.7 – 4.5	2

For downtilt mounting use the clamps for an appropriate mast diameter together with the downtilt kit.

Wall mounting: No additional mounting kit needed.

Material:

Reflector screen: Aluminum.

Radiator: Tin-plated zinc.

Flat fiberglass radome: The max. radome depth is only 86 mm | 3.4 inches.

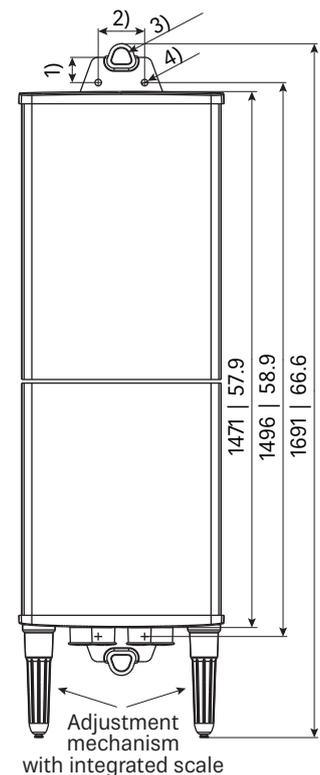
Fiberglass material guarantees optimum performance with regards to stability, stiffness, UV resistance and painting.

The color of the radome is grey.

All screws and nuts: Stainless steel.

Grounding:

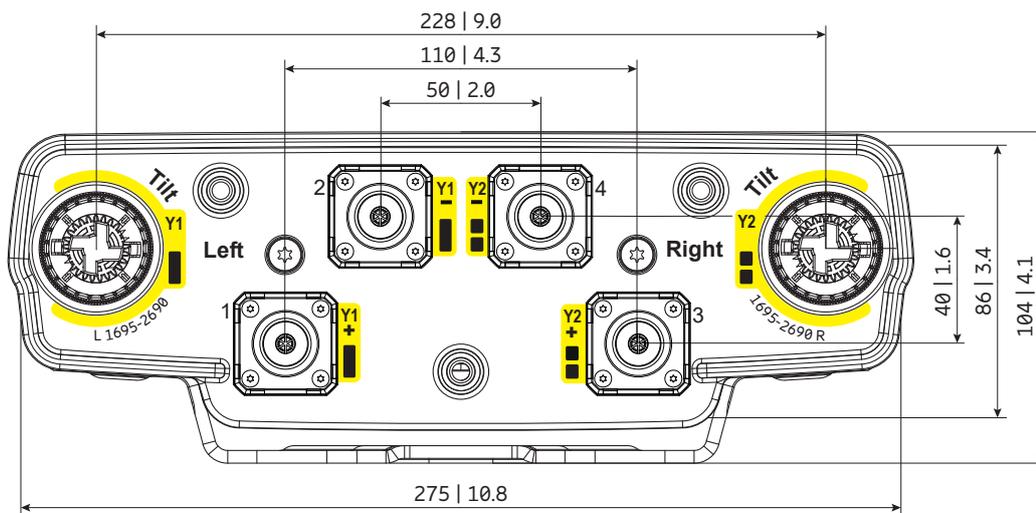
The metal parts of the antenna including the mounting kit and the inner conductors are DC grounded.



- 1) 35 | 1.4 3) \varnothing 22 | 0.9
2) 64 | 2.5 4) \varnothing 9 | 0.4

All dimensions in mm | inches

Layout of interface



Bottom view
All dimensions in mm | inches

Correlation Table

Frequency range	Array	Connector / Ports
1695–2690 MHz	Y1	1–2
1695–2690 MHz	Y2	3–4



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