

6827300

2-Band, 4-Port, 65°, XPOL, Panel Antenna, Fixed Tilt, 590 mm

- Dual band antenna, dual polarisation, 4 connectors
- Fixed tilt on each band 0° / 0°

PRODUCT OVERVIEW	Frequency Range (MHz)	698-960	1695-2690
	Array	■ R1	■ Y1
	Connector	1-2	3-4
	Polarization	XPOL	XPOL
	Azimuth Beamwidth (avg)	65°	65°
	Fixed Electrical Downtilt	0°	0°
	Dimensions	590 x 304 x 160 mm	



ELECTRICAL SPECIFICATIONS Low Band

■ **R1**

Frequency Range		MHz	698-960			
		MHz	698-806	790-862	824-894	880-960
Polarization		---	±45°			
Gain	Over all Tilts	dBi	10.0 ± 0.5	10.4 ± 0.3	10.5 ± 0.3	10.5 ± 0.4
Azimuth Beamwidth		degrees	71.9° ± 1.7°	70.8° ± 2.1°	70.9° ± 2.3°	70.4° ± 2.8°
Elevation Beamwidth		degrees	40.7° ± 4.2°	36.7° ± 3.5	35.7° ± 3.4°	34.1° ± 3.1°
Electrical Downtilt		degrees	0°			
Impedance		Ohms	50			
VSWR		---	< 1.5			
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBm	< -107			
Front-to-Back Ratio, Total Power, ±30°		dB	> 23.9	> 23.0	> 24.0	> 22.4
Upper Sidelobe Suppression, Peak to 20°		dB	> 30.0	> 30.0	> 30.0	> 20.2
Cross Polar Ratio	Main Direction (0°)	dB	> 18.1	> 18.3	> 15.3	> 17.3
	Sector Edges (±60°)	dB	> 10.7	> 10.6	> 10.9	> 12.7
Maximum Effective Power Per Port		Watts	500 W			
Inter/Intra Band Isolation		dB	> 25			

Standard values based on NGMN-P-BASTA version 9.6 recommendation.

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

6827300

2-Band, 4-Port, 65°, XPOL, Panel Antenna, Fixed Tilt, 590 mm

ELECTRICAL SPECIFICATIONS Ultra Wide Band

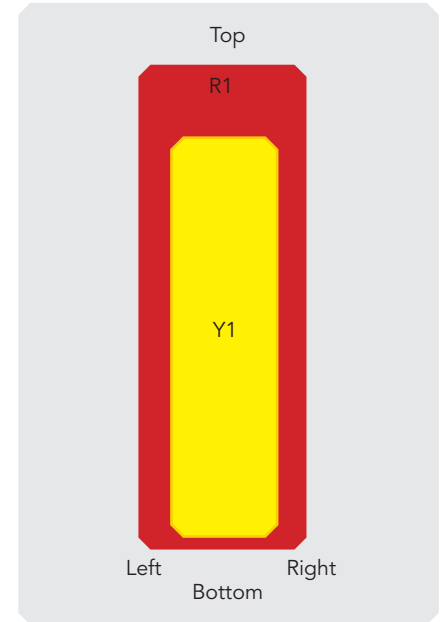
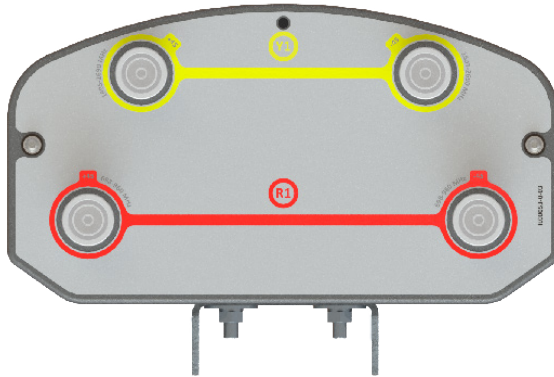
■ Y1

Frequency Range		MHz	1695-2690				
		MHz	1695-1880	1850-1990	1920-2180	2300-2500	2490-2690
Polarization		---	±45°				
Gain	Over all Tilts	dBi	12.7 ± 0.4	13.2 ± 0.6	13.7 ± 0.5	14.0 ± 0.3	13.8 ± 0.4
Azimuth Beamwidth		degrees	65.1° ± 5.4°	58° ± 6.6°	57.0° ± 3.8°	66.4° ± 4.0°	70.8° ± 4.4°
Elevation Beamwidth		degrees	16.7° ± 0.7°	15.5° ± 1.6°	14.8° ± 0.8°	13.3° ± 0.1°	12.3° ± 0.4°
Electrical Downtilt		degrees	0°				
Impedance		Ohms	50				
VSWR		---	< 1.5				
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBm	< -107				
Front-to-Back Ratio, Total Power, ±30°		dB	> 27.6	> 28.2	> 29.1	> 31.2	> 30.1
Upper Sidelobe Suppression, Peak to 20°		dB	> 21.1	> 14.7	> 15.9	> 14.6	> 11.6
Cross Polar Ratio	Main Direction (0°)	dB	> 11.6	> 12.6	> 12.8	> 13.8	> 15.1
	Sector Edges (±60°)	dB	> 5.1	> 5.2	> 6.5	> 10.2	> 7.2
Maximum Effective Power Per Port		Watts	300 W				
Inter/Intra Band Isolation		dB	> 25				

Standard values based on NGMN-P-BASTA version 9.6 recommendation.

6827300

2-Band, 4-Port, 65°, XPOL, Panel Antenna, Fixed Tilt, 590 mm



ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ R1	698-960	1-2	7/16-DIN Female Long Neck
■ Y1	1695-2690	3-4	7/16-DIN Female Long Neck	

Diagram shown at right depicts the view from the front of the antenna. The illustration is not shown to scale.

MECHANICAL SPECIFICATIONS

Length	mm (in)	590 (23.2)	
Width	mm (in)	304 (12.0)	
Depth	mm (in)	160 (6.3)	
Net Weight - Antenna Only	kg (lbs)	6.8 (15.0)	
Mechanical Distance Between Mounting Points	mm (in)	Refer to Diagram	
Windload (Wind Tunnel Coefficients)	Calculation	km/h (mph)	150 (93.2)
	Frontal	N (lbf)	239 (53.7)
	Lateral	N (lbf)	109 (24.5)
	Rearside	N (lbf)	234 (52.6)
Operational Wind Speed	km/h (mph)	160 (99.4)	
Survival Wind Speed	km/h (mph)	200 (124)	
Radome Color	---	Gray RAL7035	
Radome Material	---	Outdoor Plastic	
Lightning Protection	---	Direct Ground	

Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to products may be made without notice.

6827300

2-Band, 4-Port, 65°, XPOL, Panel Antenna, Fixed Tilt, 590 mm

ENVIRONMENTAL SPECIFICATIONS

Environmental Standard	---	ETS 300 019
Operating Temperature	° C (° F)	-40° to +60° (-40° to 140°)
Product Environmental Compliance	---	Product is RoHs Compliant


ACCESSORIES

All accessories are ordered separately unless otherwise indicated

ITEM	MODEL NUMBER	WEIGHT
Brackets for pole Ø48 to Ø115 mm (Ø1.9 to Ø4.5 in) delivered as standard	0900181/00	3.4 kg (7.5 lbs)
Kit to add mechanical tilt (0° to 10°) to above brackets optional	0900397/00	3.0 kg (6.6 lbs)

INSTALLATION

Please read all installation notes before installing this product.

	Always attach the antenna by all mounting points.
	Do not install the antenna with the connectors facing upwards.

