6880388

6880388G

3-Band, 6-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 2580 mm

- Tri band antenna, dual polarisation, 6 connectors
- Independent tilt on each band 0-10° / 0-10° / 0-10°
- MET and RET versions, 3GPP/AISG2.0

PRODUCT OVERVIEW				
	Frequency Range (MHz)	690-960	1690-2690	1690-2690
	Array	R1	Y1	Y2
	Connector	1-2	3-4	5-6
	Polarization	XPOL	XPOL	XPOL
	Azimuth Beamwidth (avg)	65°	65°	65°
	Electrical Downtilt	0-10°	0-10°	0-10°
	Dimensions	2580 x 349 x 128 mm		

ORDERING OPTIONS Select from the different options listed below

SELECT ELECTRICAL DOWNTILT CONTROL & AISG PROTOCOL	SELECT CONNECTOR TYPE	ANTENNA MODEL NUMBER
Manual Electrical Tilt (MET)	7/16-DIN Female	6880388
Remote Electrical Tilt (RET) AISG v2.0 / 3GPP	7/16-DIN Female	6880388G

ELECTRICAL SPECIFICATIONS Low Band — R1

Frequency Range		MHz	690-960		
		MHz	690-806	824-894	880-960
Polarization		---	±45°		
Gain, Average	0°	dBi	16.7 ± 0.4	17.1 ± 0.4	17.3 ± 0.4
	5°	dBi	16.8 ± 0.4	17.2 ± 0.4	17.4 ± 0.4
	10°	dBi	16.6 ± 0.4	17.0 ± 0.4	17.0 ± 0.4
Azimuth Beamwidth		degrees	70° ± 2.1°	67° ± 2.2°	65° ± 2.2°
Elevation Beamwidth		degrees	8.4° ± 0.7°	7.2° ± 0.4°	6.7° ± 0.4°
Electrical Downtilt		degrees	0°-10°		
Impedance		Ohms	50		
VSWR		---	< 1.5		
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBc	≤ -153		
Front-to-Back Ratio	180°	dB	> 26		
	180° ± 30°	dB	> 25		
Upper Sidelobe Suppression, Peak to 20°		dB	15	15	15
Cross Polar Ratio	Main Direction (0°)	dB	> 20		
	±60°	dB	> 7		
Maximum Power Per Port (50° C)		Watts	500 W		
Isolation between ports		dB	> 28		

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

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ELECTRICAL SPECIFICATIONS Ultra Wide Band — Y1

Frequency Range		MHz	1690-2690			
		MHz	1690-1990	1920-2200	2200-2490	2490-2690
Polarization		---	±45°			
Gain, Average	0°	dBi	17.2 ± 0.4	17.7 ± 0.4	17.9 ± 0.4	17.9 ± 0.4
	5°	dBi	17.3 ± 0.4	17.9 ± 0.4	18.1 ± 0.4	18.0 ± 0.4
	10°	dBi	17.0 ± 0.4	17.5 ± 0.4	17.7 ± 0.4	17.6 ± 0.4
Azimuth Beamwidth		degrees	66° ± 3.5°	63° ± 3.0°	62° ± 2.8°	62° ± 2.8°
Elevation Beamwidth		degrees	7.0° ± 0.6°	6.3° ± 0.5°	5.7° ± 0.4°	5.2° ± 0.4°
Electrical Downtilt		degrees	0°-10°			
Impedance		Ohms	50			
VSWR		---	< 1.5			
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBc	≤ -153			
Front-to-Back Ratio	180°	dB	> 30			
	180° ± 30°		> 25			
Upper Sidelobe Suppression, Peak to 20°		dB	16	16	16	15
Cross Polar Ratio	Main Direction (0°)	dB	> 18			
	Sector Edges (±60°)		> 8			
Maximum Effective Power Per Port		Watts	250 W			
Isolation between ports		dB	> 28			

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

ELECTRICAL SPECIFICATIONS Ultra Wide Band — Y2

Frequency Range		MHz	1690-2690			
		MHz	1690-1990	1920-2200	2200-2490	2490-2690
Polarization		---	±45°			
Gain, Average	0°	dBi	17.2 ± 0.4	17.7 ± 0.4	17.9 ± 0.4	17.9 ± 0.4
	5°	dBi	17.3 ± 0.4	17.9 ± 0.4	18.1 ± 0.4	18.0 ± 0.4
	10°	dBi	17.0 ± 0.4	17.5 ± 0.4	17.7 ± 0.4	17.6 ± 0.4
Azimuth Beamwidth		degrees	66° ± 3.5°	63° ± 3.0°	62° ± 2.8°	62° ± 2.8°
Elevation Beamwidth		degrees	7.0° ± 0.6°	6.3° ± 0.5°	5.7° ± 0.4°	5.2° ± 0.4°
Electrical Downtilt		degrees	0°-10°			
Impedance		Ohms	50			
VSWR		---	< 1.5			
Passive Intermodulation 3rd Order for 2 x 20W Carriers		dBc	≤ -153			
Front-to-Back Ratio	180°	dB	> 30			
	180° ± 30°		> 25			
Upper Sidelobe Suppression, Peak to 20°		dB	16	16	16	15
Cross Polar Ratio	Main Direction (0°)	dB	> 18			
	Sector Edges (±60°)		> 8			
Maximum Effective Power Per Port		Watts	250 W			
Isolation between ports		dB	> 28			

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

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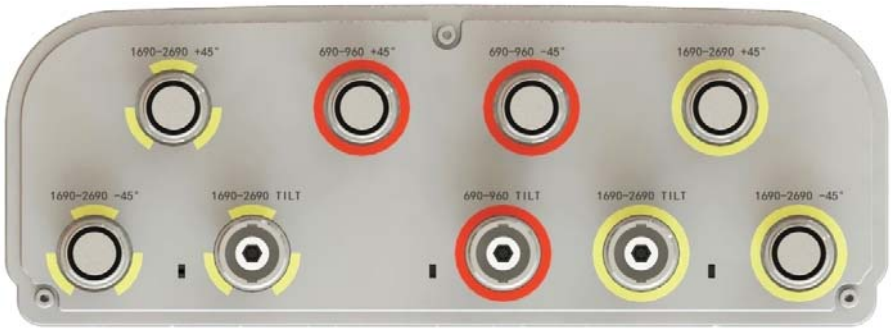
MECHANICAL SPECIFICATIONS

Length		mm (in)	2580 (101.6)
Width		mm (in)	349 (13.7)
Depth		mm (in)	128 (5.0)
Net Weight - Antenna Only		kg (lbs)	23 (50.7)
Windload	Calculation	km/h (mph)	150 (93.2)
	Frontal	N (lbf)	1290 (290)
	Lateral	N (lbf)	475 (106.8)
	Rearside	N (lbf)	1495 (336.1)
Operational Wind Speed		km/h (mph)	150 (93.2)
Survival Wind Speed		km/h (mph)	200 (124)
Radome Color		---	Light Grey
Radome Material		---	PVC
Lightning Protection		---	DC Ground



ARRAY LAYOUT

ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
R1	690-960	1-2	7/16-DIN Female
Y1	1690-2690	3-4	7/16-DIN Female
Y2	1690-2690	5-6	7/16-DIN Female

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	° C (° F)	-55° to +65° (-67° to 149°)

ACCESSORIES

All accessories are ordered separately unless otherwise indicated

ITEM	MECHANICAL DOWNTILT
Mounting and Downtilt bracket kit for pole Ø50 to Ø115 mm (Ø2.0 to Ø4.5 in) ***delivered as standard***	0 -10°

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