

65°

2580 mm

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

	Frequency Range (MHz)	690-960	1690-2690	1690-2690
OVERVIEW	Array	■ R1	<u></u> Y1	Y2
/ER	Connector	1-2	3-4	5-6
	Polarization	XPOL	XPOL	XPOL
DUCT	Azimuth Beamwidth (avg)	65°	65°	65°
PROD	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 SF	PECIFICATIONS Lo	w Band		■ R1		
Frequency Range		MHz	690-960			
		MHz	690-806	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 Beamwid	th	degrees	70° ± 2.1°	67° ± 2.2°	65° ± 2.2°	
Elevation Beamwid	dth	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	180°	dB		> 26		
Ratio	180° ± 30°	dB		> 25		
Upper Sidelobe Sup	opression, Peak to 20°	dB	15	15	15	
Cross Polar Ratio Main Direction (0°) ±60°		dB	> 20			
		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.







65°

2580 mm

6880388

6880388G

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

ELECTRICAL SP	ECIFICATIONS Ultra	CATIONS 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 Intermodul 3rd Order for 2 x 2		dBc	≤ -153				
Front-to-Back	180°	dB	> 30				
Ratio	180° ± 30°		> 25				
Upper Sidelobe Sup	pression, Peak to 20°	dB	16	16	16	15	
Cross Polar Ratio	Main Direction (0°)	dB	> 18				
Sector Edges (> 8				
Maximum Effective Power Per Port		Watts	250 W				
Isolation between ports		dB	> 28				
<u>'</u>					1 1101111 5 5 1071		

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

ELECTRICAL SPECIFICATIONS Ultra Wide Band

Y2

Frequency Range			1690-	-2690		
		1690-1990	1920-2200	2200-2490	2490-2690	
		±45°				
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	
h	degrees	66° ± 3.5°	63° ± 3.0°	62° ± 2.8°	62° ± 2.8°	
lth	degrees	7.0° ± 0.6°	6.3° ± 0.5°	5.7° ± 0.4°	5.2° ± 0.4°	
	degrees	0°-10°				
	Ohms	50				
		< 1.5				
ation 0W Carriers	dBc	≤ -153				
180°	dB	> 30				
180° ± 30°		> 25				
pression, Peak to 20°	dB	16	16	16	15	
Cross Polar Ratio Main Direction (0°)		> 18				
Sector Edges (±60°)		> 8				
Maximum Effective Power Per Port		250 W				
oorts	dB	> 28				
	ation 0W Carriers 180° 180° ± 30° pression, Peak to 20° Main Direction (0°) Sector Edges (±60°) Power Per Port	0° dBi 5° dBi 10° dBi 10° dBi h degrees th degrees Ohms ation 0W Carriers 180° dB 180° dB Main Direction (0°) dB Sector Edges (±60°) Power Per Port Watts	MHz 1690-1990 0° dBi 17.2 ± 0.4 5° dBi 17.3 ± 0.4 10° dBi 17.0 ± 0.4 h degrees 66° ± 3.5° th degrees 7.0° ± 0.6° degrees Ohms ation 0W Carriers dBc 180° dB 180° ± 30° pression, Peak to 20° dB Main Direction (0°) dB Sector Edges (±60°) Power Per Port Watts	MHz 1690-1990 1920-2200 ±4 0° dBi 17.2 ± 0.4 17.7 ± 0.4 5° dBi 17.3 ± 0.4 17.9 ± 0.4 10° dBi 17.0 ± 0.4 17.5 ± 0.4 h degrees 66° ± 3.5° 63° ± 3.0° th degrees 7.0° ± 0.6° 6.3° ± 0.5° degrees 0°- Ohms 5 < < < < < < < < <-	MHz 1690-1990 1920-2200 2200-2490 ±45° O° dBi 17.2 ± 0.4 17.7 ± 0.4 17.9 ± 0.4 5° dBi 17.3 ± 0.4 17.9 ± 0.4 18.1 ± 0.4 10° dBi 17.0 ± 0.4 17.5 ± 0.4 17.7 ± 0.4 h degrees 66° ± 3.5° 63° ± 3.0° 62° ± 2.8° tth degrees 7.0° ± 0.6° 6.3° ± 0.5° 5.7° ± 0.4° degrees O°-10° Ohms 50 < 1.5 ation OW Carriers dBc 30° 180° ± 30° Power Per Port Watts 50 W	

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.



65°

2580 mm

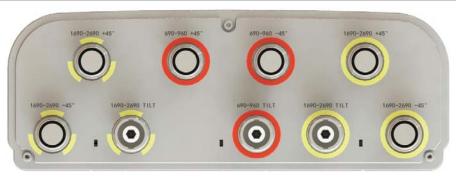
6880388

6880388G

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

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



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

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	° C (° E)	-55° to +65° (-67° to 149°)
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) <i>delivered as standard</i>	0 -10°

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.