

1397 mm

65°

## 6177788G

#### 4-Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1397 mm

- Quad band antenna, dual polarisation, 8 connectors
- Independent, continuously adjustable tilt on each band 0-10° / 0-10° / 0-10° / 0-10°
- RET version, 3GPP/AISG2.0 with four integrated RCUs

#### ACCESS PORT DESCRIPTION (CONNECTORS)

The antenna has 8 colour-coded connectors located at the bottom face.

Frequency Designation	Y1	Y2	Y3	Y4
Frequency Range	1710-2690 MHz	1710-2690 MHz	1710-2690 MHz	1710-2690 MHz
Polarisation	Xpol	Xpol	ХроІ	ХроІ
Horizontal Beamwidth	65°	65°	65°	65°
Electrical Downtilt Range	0-10°	0-10°	0-10°	0-10°
Connector Type	(2x) 7/16-DIN Female	(2x) 7/16-DIN Female	(2x) 7/16-DIN Female	(2x) 7/16-DIN Female

ELECTRICAL CH	IARACTERISTICS	Y1						
Frequency Bands		1710-2690 MHz						
		1710-1880	1850-1990	1920-2170	2300-2400	2500-2690		
Gain	At Mid Tilt	17.4 dBi	18.0 dBi	18.2 dBi	17.9 dBi	17.8 dBi		
	Over All Tilts	17.2 ± 0.6 dBi	18.0 ± 0.5 dBi	18.2 ± 0.5 dBi	18.0 ± 0.4 dBi	17.8 ± 0.5 dBi		
Input Impedance	e	50Ω						
VSWR		< 1.5						
Polarisation		±45°						
Horizontal Beamwidth (-3 dB)		68° ± 3.8°	65° ± 2.9°	68° ± 4.5°	67° ± 6.2°	64° ± 5.1°		
Vertical Beamwidth (-3 dB)		6.9° ± 0.6°	$6.4^{\circ} \pm 0.5^{\circ}$	5.9° ± 0.5°	5.3° ± 0.2°	4.9° ± 0.3°		
Electrical Downtilt Range		0-10°						
Cross Polar Isolation		> 28 dB						
Interband Isolati	on	> 28 dB						
Port-to-Port Isola	ation	> 28 dB						
Upper Sidelobe Suppression	Typical	> 16 dB	> 17 dB	> 16 dB	> 19 dB	> 19 dB		
	Peak to 20°	> 15 dB	> 15 dB	> 15 dB	> 15 dB	> 14 dB		
Front-to-Back Ratio (@ 180° ± 30°)		> 25 dB	> 26 dB	> 26 dB	> 25 dB	> 26 dB		
Cross Polar Discrimination	Main Direction	> 20 dB	> 22 dB	> 22 dB	> 19 dB	> 20 dB		
	Sector Edges	> 12 dB	> 12 dB	> 10 dB	> 9 dB	> 9 dB		
Maximum Power (Per Port)		200 W (at 50°C ambient temperature)						
Intermodulation 3rd Order (2x43	dBm Carrier)	< -153 dBc						
Grounding		DC Ground						



AISGY



## 8-Port Antenna 1710-2690 | 1710-2690 | 1710-2690 MHz

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#### 4-Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1397 mm

ELECTRICAL CI	HARACTERISTICS		Y2						
Frequency Bands			1710-2690 MHz						
		1710-1880	1850-1990	1920-2170	2300-2400	2500-2690			
Gain	At Mid Tilt	17.3 dBi	18.1 dBi	18.1 dBi	17.9 dBi	17.8 dBi			
	Over All Tilts	17.2 ± 0.6 dBi	17.9 ± 0.5 dBi	18.0 ± 0.4 dBi	17.9 ± 0.4 dBi	17.7 ± 0.5 dBi			
Input Impedance			50Ω						
VSWR				< 1.5					
Polarisation			±45°						
Horizontal Beamwidth (-3 dB)		67° ± 4.0°	64° ± 2.4°	67° ± 4.1°	66° ± 5.7°	64° ± 5.1°			
Vertical Beamwidth (-3 dB)		6.9° ± 0.5°	6.4° ± 0.5°	5.9° ± 0.4°	5.4° ± 0.3°	$4.8^{\circ} \pm 0.3^{\circ}$			
Electrical Downtilt Range			0-10°						
Cross Polar Isolation			> 28 dB						
Interband Isolation			> 28 dB						
Port-to-Port Isol	ation		> 28 dB						
Upper Sidelobe	Typical	> 17 dB	> 17 dB	> 17 dB	> 19 dB	> 19 dB			
Suppression	Peak to 20°	> 16 dB	> 15 dB	> 15 dB	> 15 dB	> 14 dB			
Front-to-Back Ratio (@ 180° ± 30°)		≥ 25 dB	≥ 26 dB	> 26 dB	≥ 26 dB	≥ 26 dB			
Cross Polar Discrimination	Main Direction	> 20 dB	> 22 dB	> 21 dB	> 19 dB	> 19 dB			
	Sector Edges	> 12 dB	> 11 dB	> 10 dB	> 9 dB	> 9 dB			
Maximum Power (Per Port)			200 W (at 50°C ambient temperature)						
Intermodulation 3rd (2x43 dBm Carrier)			< -153 dBc						
Grounding			DC Ground						

#### **ELECTRICAL CHARACTERISTICS Y3** 1710-2690 MHz Frequency Bands 1710-1880 1850-1990 1920-2170 2300-2400 2500-2690 At Mid Tilt 17.4 dBi 18.0 dBi 18.2 dBi 17.9 dBi 17.8 dBi Gain Over All Tilts 17.9 ± 0.5 dBi 17.9 ± 0.4 dBi 17.7 ± 0.5 dBi 17.2 ± 0.6 dBi 18.0 ± 0.4 dBi Input Impedance 50Ω VSWR < 1.5 Polarisation ±45° Horizontal Beamwidth (-3 dB) $67^{\circ} \pm 4.5^{\circ}$ $65^{\circ} \pm 2.3^{\circ}$ $67^{\circ} \pm 5.2^{\circ}$ $66^{\circ} \pm 5.3^{\circ}$ $62^{\circ} \pm 4.9^{\circ}$ Vertical Beamwidth (-3 dB) $6.9^{\circ} \pm 0.6^{\circ}$ $6.3^{\circ} \pm 0.5^{\circ}$ $5.8^{\circ} \pm 0.5^{\circ}$ $5.4^{\circ} \pm 0.3^{\circ}$ $4.9^{\circ} \pm 0.3^{\circ}$ Electrical Downtilt Range 0-10° **Cross Polar Isolation** > 28 dB Interband Isolation > 28 dB Port-to-Port Isolation > 28 dB > 16 dB > 17 dB > 17 dB > 18 dB > 18 dB Typical Upper Sidelobe Suppression Peak to 20° > 16 dB > 16 dB > 15 dB > 15 dB > 14 dB ≥ 25 dB Front-to-Back Ratio (@ 180° ± 30°) $\geq 25 \text{ dB}$ ≥ 26 dB > 25 dB ≥ 25 dB Main Direction > 21 dB > 20 dB > 20 dB > 18 dB > 19 dB Cross Polar Discrimination Sector Edges > 12 dB > 11 dB > 9.5 dB > 9.0 dB > 9.0 dB Maximum Power (Per Port) 200 W (at 50°C ambient temperature) Intermodulation 3rd (2x43 dBm Carrier) < -153 dBc Grounding DC Ground



## 8-Port Antenna 1710-2690 | 1710-2690 | 1710-2690 MHz

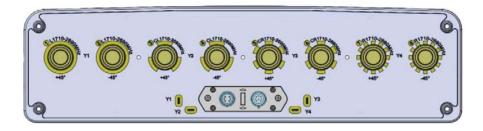
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#### 4-Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1397 mm

ELECTRICAL C	HARACTERISTICS		Y4						
Frequency Bands			1710-2690 MHz						
		1710-1880	1850-1990	1920-2170	2300-2400	2500-2690			
Gain	At Mid Tilt	17.2 dBi	17.8 dBi	18.0 dBi	17.9 dBi	17.7 dBi			
	Over All Tilts	17.2 ± 0.6 dBi	17.9 ± 0.5 dBi	18.0 ± 0.4 dBi	17.9 ± 0.4 dBi	17.7 ± 0.5 dBi			
Input Impedance			50Ω						
VSWR				< 1.5					
Polarisation			±45°						
Horizontal Beamwidth (-3 dB)		67° ± 4.5°	65° ± 2.3°	67° ± 5.2°	66° ± 5.3°	62° ± 4.9°			
Vertical Beamwidth (-3 dB)		6.9° ± 0.6°	6.3° ± 0.5°	5.8° ± 0.5°	5.4° ± 0.3°	4.9° ± 0.3°			
Electrical Downtilt Range			0-10°						
Cross Polar Isolation			> 28 dB						
Interband Isolation			> 28 dB						
Port-to-Port Isol	ation		> 28 dB						
Upper Sidelobe Suppression	Typical	> 16 dB	> 17 dB	> 17 dB	> 18 dB	> 18 dB			
	Peak to 20°	> 16 dB	> 16 dB	> 15 dB	> 15 dB	> 14 dB			
Front-to-Back Ratio (@ 180° ± 30°)		≥ 25 dB	≥ 26 dB	> 25 dB	≥ 25 dB	≥ 25 dB			
Cross Polar Discrimination	Main Direction	> 18 dB	> 18 dB	> 18 dB	> 18 dB	> 19 dB			
	Sector Edges	> 12 dB	> 11 dB	> 9.5 dB	> 9 dB	> 9 dB			
Maximum Power (Per Port)			200 W (at 50°C ambient temperature)						
Intermodulation 3rd (2x43 dBm Carrier)			< -153 dBc						
Grounding			DC Ground						





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#### 4-Band, 8-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1397 mm

INTEGRATED RET PROPERTIES				PACKAGING
Power Supply	10-30VDC			
Power Consumption	≤ 2W	Carton Box		
Hardware Interface		1.747 x 0.582 x 0.227 m		
Logical Interface	HEX Coded Co			
Protocol Supported		AISG v2.0		
Adjustment Time (Full Range)		< 4Min		
Adjustment Cycles				
Torque Max				
Lightning Protection Rating	IEC 61000-4-5 Current Pu			
Connectors	(2x) Accordir Daisy Chain I Pin 3: RS485+; Pin			
MECHANICAL CHARACTERISTICS				
Dimensions (Height x Width x Depth)	1			
Weight (excluding mounting accessory)	23 kg			
Radome Material, Colour	Fiberglass, Light Grey			
Connector Type	(8x) 7/16-DIN Female			
Maximum Wind Speed				
MOUNTING KIT OPTIONS		POLE DIAMETER	WEIGHT	
All mounting bracket kits are ordered se	eparately unless otherwise in	dicated.		
Mounting Bracket Kit (Included)		Ø50-Ø125 mm	6 kg	