

6236308G

4Xpol | 33° Az | 16.5 / 16.5 / 20.0 / 20.0 dBi | 2-10° / 2-10° / 2-10° / 2-10° | 1500 x 673 x 236 mm

- Quad band, twin beam antenna, dual polarisation, 8 connectors
- Independent tilt on each band 2-10° / 2-10° / 2-10° / 2-10°
- RET version, 3GPP/AISG2.0 with integrated RCU
- Mounting and downtilt brackets included

ORDERING OPTIONS	MODEL NUMBER
7/16-DIN Female Connectors	6236308G
4.3/10 Female Connectors	6236308NG

ACCESS PORT DESCRIPTION (CONNECTORS)

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

Frequency Designation	R1	R2	Y1	Y2
Frequency Range	698-960 MHz	698-960 MHz	1710-2690 MHz	1710-2690 MHz
Polarisation	Xpol	Xpol	Xpol	Xpol
Horizontal Beamwidth	33°	33°	33°	33°
Electrical Downtilt Range	2-10°	2-10°	2-10°	2-10°
Connector Type	(2x) 7/16-DIN or 4.3/10 Female	(2x) 7/16-DIN or 4.3/10 Female	(2x) 7/16-DIN or 4.3/10 Female	(2x) 7/16-DIN or 4.3/10 Female



ELECTRICAL CHARACTERISTICS	R1		
Frequency Bands	698-960 MHz		
	698-806 MHz	806-880 MHz	880-960 MHz
Gain	15.2 dBi	16.1 dBi	16.5 dBi
Input Impedance	50Ω		
VSWR	< 1.5		
Polarisation	±45°		
Horizontal Beamwidth (-3 dB)	35°	32°	30°
Vertical Beamwidth (-3 dB)	19.0°	18.0°	16.5°
Horizontal Beam Pointing	+29°	+27°	+25°
Electrical Downtilt Range	2-10°		
Intra Band Isolation	> 25 dB		
Upper Sidelobe Rejection (30° sector above main beam)	16 dB	16 dB	16 dB
Front-to-Back Ratio @ 180° ±30°	25 dB	25 dB	25 dB
Maximum Power (Per Port)	300 W		
Intermodulation 3rd Order for 2 x 43 dBm	< -107 dBm		



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698-960 | 698-960 | 1710-2690 | 1710-2690 MHz

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ELECTRICAL CHARACTERISTICS	R2		
	698-960 MHz		
Frequency Bands	698-806 MHz	806-880 MHz	880-960 MHz
Gain	15.2 dBi	16.1 dBi	16.5 dBi
Input Impedance	50Ω		
VSWR	< 1.5		
Polarisation	±45°		
Horizontal Beamwidth (-3 dB)	35°	32°	30°
Vertical Beamwidth (-3 dB)	19.0°	18.0°	16.5°
Horizontal Beam Pointing	-29°	-27°	-25°
Electrical Downtilt Range	2-10°		
Intra Band Isolation	> 25 dB		
Upper Sidelobe Rejection (30° sector above main beam)	16 dB	16 dB	16 dB
Front-to-Back Ratio @ 180° ±30°	25 dB	25 dB	25 dB
Maximum Power (Per Port)	300 W		
Intermodulation 3rd Order for 2 x 43 dBm	< -107 dBm		

ELECTRICAL CHARACTERISTICS	Y1		
	1710-2690 MHz		
Frequency Bands	1710-1880 MHz	1880-2170 MHz	2300-2690 MHz
Gain	18.8 dBi	19.3 dBi	20.0 dBi
Input Impedance	50Ω		
VSWR	< 1.5		
Polarisation	±45°		
Horizontal Beamwidth (-3 dB)	32°	28°	25°
Vertical Beamwidth (-3 dB)	8.0°	7.5°	6.3°
Horizontal Beam Pointing	+29°	+26°	+23°
Electrical Downtilt Range	2-10°		
Intra Band Isolation	> 25 dB		
Upper Sidelobe Rejection (30° sector above main beam)	16 dB	16 dB	16 dB
Front-to-Back Ratio @ 180° ±30°	25 dB	25 dB	25 dB
Maximum Power (Per Port)	250 W		
Intermodulation 3rd Order for 2 x 43 dBm	< -107 dBm		

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ELECTRICAL CHARACTERISTICS	Y2		
Frequency Bands	1710-2690 MHz		
	1710-1880 MHz	1880-2170 MHz	2300-2690 MHz
Gain	18.8 dBi	19.3 dBi	20.0 dBi
Input Impedance	50Ω		
VSWR	< 1.5		
Polarisation	±45°		
Horizontal Beamwidth (-3 dB)	32°	28°	25°
Vertical Beamwidth (-3 dB)	8.0°	7.5°	6.3°
Horizontal Beam Pointing	-29°	-26°	-23°
Electrical Downtilt Range	2-10°		
Intra Band Isolation	> 25 dB		
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ELECTRICAL DOWNTILT CONTROL			
Remote Electrical Tilt (RET) Control		Integrated RET; 3GPP/AISG2.0	
Input Voltage Range		10-30V DC	
Power Consumption	Motor Activated, Single RET	< 5 W	
	Standby, Single RET	< 1 W	
	Standby, 12V	< 1.5 W	
Full Range Adjustment Time (typical, dependent on antenna type)		< 120 seconds	
RET Connector		2 pair of AISG 8 pin male & female	
PIN Assignment		8-pin circular connector conforming to IEC 60130-9 - Ed. 3.0	
Lightning Protection	Differential Mode	5 kA (8/20µs)	
	Common Mode	8kA (8/20µs)	
ENVIRONMENTAL CHARACTERISTICS			
Operating Temperature Range		-40° C to +70° C	
Lightning Protection		DC Ground	
Relative Humidity (at 30° C)		95%	
MECHANICAL CHARACTERISTICS			
Dimensions		Height: 1500 mm Width: 673 mm Depth: 236 mm	
Weight		42 kg	
Shroud		Fiberglass	
Survival Wind Speed		200 km/h	
Wind Load at 150 km/h		Front: 1584 N; Lateral: 246 N; Side: 1558 N	
PACKING CHARACTERISTICS			
Packing Dimensions		Height: 1764 mm Width: 823 mm Depth: 340 mm	
Packing Weight		57 kg	
MOUNTING CHARACTERISTICS		PIPE DIAMETER	ADJUSTABLE DOWNTILT
Mounting & Downtilt Kit (Included)		Ø70-Ø114 mm	0-12°

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Bottom View of Antenna

