

6175108G

6175108NG

2-Band | 4-Port | XPOL | Panel Antenna | Variable Tilt | 900 mm

- Twin band antenna, dual polarisation, 4 connectors
- Independent tilt on each band 0-10° / 0-10°
- RET version, 3GPP/AISGv2.0
- 2 Integrated RET Units (field replaceable)

ACCESS PORT DESCRIPTION (CONNECTORS)

This antenna has 4 colour-coded connectors located at the bottom face.

Frequency Designation	Y1	Y2
Frequency Range	1710-2690 MHz	1710-2690 MHz
Polarisation	Xpol	Xpol
Horizontal Beamwidth	65°	65°
Electrical Downtilt Range	0-10°	0-10°
Connector Type	(2x) 7/16-DIN Female (or) 4.3-10 Female	(2x) 7/16-DIN Female (or) 4.3-10 Female

ELECTRICAL CHARACTERISTICS

ELECTRICAL CHARACTERISTICS		Y1				
		1710-2690 MHz				
Frequency Bands		1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain	At Mid Tilt	15.8 dBi	16.0 dBi	16.2 dBi	16.3 dBi	16.5 dBi
	Over All Tilts	15.8 ± 0.6 dBi	16.0 ± 0.5 dBi	16.2 ± 0.5 dBi	16.3 ± 0.5 dBi	16.5 ± 0.5 dBi
Input Impedance		50Ω				
VSWR		< 1.5				
Polarisation		±45°				
Horizontal Beamwidth (-3 dB)		67° ± 3.8°	65° ± 2.9°	63° ± 4.5°	62° ± 4.2°	61° ± 4.1°
Vertical Beamwidth (-3 dB)		9.9° ± 0.9°	9.3° ± 0.9°	8.8° ± 0.9°	7.6° ± 0.6°	6.9° ± 0.6°
Electrical Downtilt Range		0-10°				
Cross Polar Isolation		> 28 dB				
Interband Isolation		> 28 dB				
Port-to-Port Isolation		> 28 dB				
Upper Sidelobe Suppression	Typical	> 15 dB	> 15 dB	> 15 dB	> 15 dB	> 15 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 (2x43 dBm Carrier)		< -153 dBc				
Grounding		DC Ground				



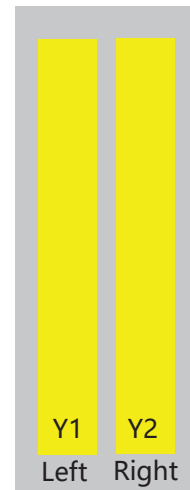
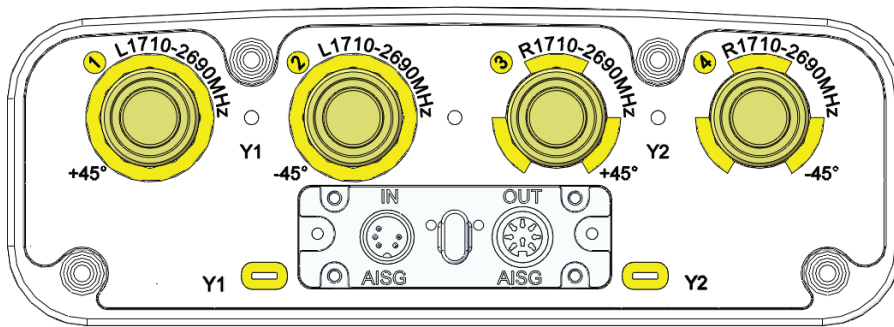
Several patents pending regarding this product. Quoted performance parameters are provided to offer typical, peak or range values only and may vary as a result of normal testing, manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our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

6175108G

6175108NG

2-Band | 4-Port | XPOL | Panel Antenna | Variable Tilt | 900 mm

ELECTRICAL CHARACTERISTICS		Y2				
Frequency Bands		1710-2690 MHz				
		1710-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain	At Mid Tilt	15.8 dBi	16.0 dBi	16.2 dBi	16.3 dBi	16.5 dBi
	Over All Tilts	15.8 ± 0.6 dBi	16.0 ± 0.5 dBi	16.2 ± 0.5 dBi	16.3 ± 0.5 dBi	16.5 ± 0.5 dBi
Input Impedance		50Ω				
VSWR		< 1.5				
Polarisation		±45°				
Horizontal Beamwidth (-3 dB)		67° ± 4.5°	65° ± 2.3°	63° ± 5.2°	62° ± 5.3°	62° ± 4.9°
Vertical Beamwidth (-3 dB)		9.9° ± 0.9°	9.3° ± 0.9°	8.8° ± 0.9°	7.6° ± 0.6°	6.9° ± 0.6°
Electrical Downtilt Range		0-10°				
Cross Polar Isolation		> 28 dB				
Interband Isolation		> 28 dB				
Port-to-Port Isolation		> 28 dB				
Upper Sidelobe Suppression	Typical	> 15 dB	> 15 dB	> 15 dB	> 15 dB	> 15 dB
	Peak to 20°	> 16 dB	> 16 dB	> 15 dB	> 15 dB	> 14 dB
Front-to-Back Ratio (@ 180° ± 30°)		≥ 25 dB	≥ 25 dB	> 25 dB	≥ 25 dB	≥ 25 dB
Cross Polar Discrimination	Main Direction	> 21 dB	> 20 dB	> 20 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				



ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	Y1	1710-2690	1-2	7/16-DIN Female (or) 4.3-10 Female
	Y2	1710-2690	3-4	7/16-DIN Female (or) 4.3-10 Female

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

Several patents pending regarding this product. 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.

6175108G

6175108NG

2-Band | 4-Port | XPOL | Panel Antenna | Variable Tilt | 900 mm

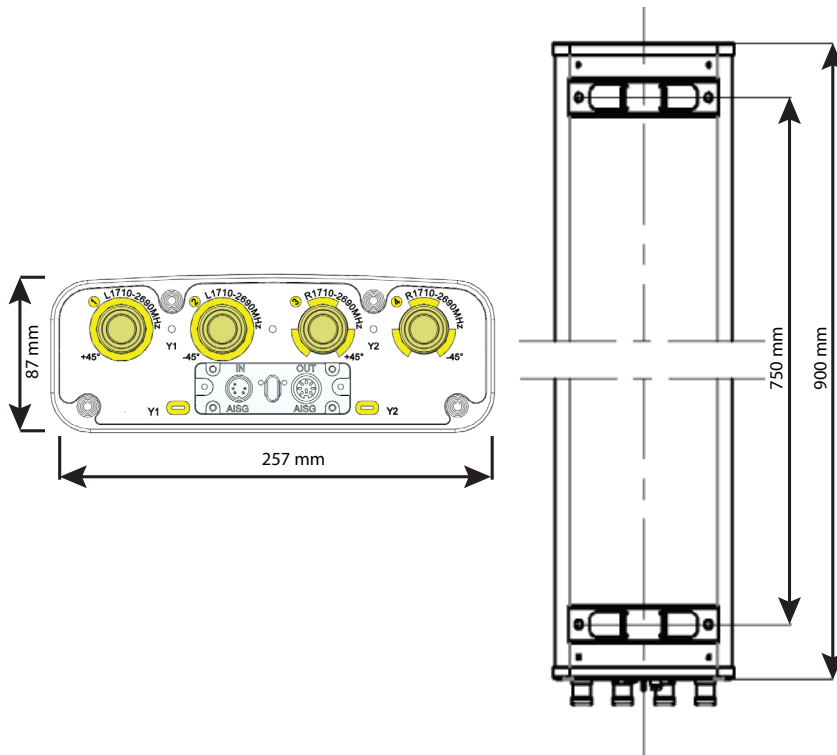
INTEGRATED RET PROPERTIES	
Protocol	Compliant with 3GPP/AISGv2.0
Power Supply	10-30VDC
Adjustment Time (Full Range)	≤ 90 sec (typical, depending on antenna type)
Power Consumption	< 1 W (Idle); < 10 W (In Motion)
Accuracy	≤ 0.5°
Hardware Interface	RS485 and Power
Safety Standard	Compliant to EN 60950/UL 60950/ RoHS, CE
Remote Control	Can manage from OMC, BTS/Node B
Adjustment Cycles	> 10,000
Torque Max	≥ 160 mN.m
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 8 kA
Connectors	(2x) 8-Pin Circle Connector According to IEC 60130-9 and AISG Daisy Chain In: Male; Daisy Chain Out: Female Pin 3: RS485+; Pin 5: RS485-; Pin 6: 10~30V; Pin 7: GND

MECHANICAL CHARACTERISTICS	
Dimensions (Height x Width x Depth)	900 x 257 x 87 mm (35.4 x 10.1 x 3.4 in)
Weight (excluding mounting accessory)	8.5 kg (18.7 lbs)
Weight with mounting accessory	11.5 kg (25.3 lbs)
Radome Material	UPVC
Maximum Wind Speed	200 km/h (124.3 mph)

PACKAGING

Carton Box
1.050 x 0.342 x 0.187 m
(41.3 x 13.5 x 7.4 in)

MOUNTING KIT OPTIONS	POLE DIAMETER	MECHANICAL TILT RANGE
All mounting bracket kits are ordered separately unless otherwise indicated.		
Mounting Bracket Kit (Included)	Ø50-Ø125 mm (Ø2.0-Ø4.9 in)	0-16°



Several patents pending regarding this product. 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.