

6176108NG

1-Band | 2-Port | XPOL | Panel Antenna | Variable Tilt | 1477 mm

- Single band antenna, dual polarisation, 2 connectors
- Independent tilt on each band 0-10°
- Available with 4.3-10 connectors
- RET version, 3GPP/AISG2.0 with one integrated RCUs

ACCESS PORT DESCRIPTION (CONNECTORS)

This antenna has 2 colour-coded connectors located at the bottom face.

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

ELECTRICAL CHARACTERISTICS

		Y1				
		1710-2690 MHz				
Frequency Bands		1710-1880	1850-1990	1920-2170	2300-2400	2490-2700
Gain	At Mid Tilt	17.3 dBi	17.5 dBi	17.7 dBi	18.1 dBi	18.0 dBi
	Over All Tilts	17.2 ± 0.5 dBi	17.4 ± 0.5 dBi	17.6 ± 0.5 dBi	18.0 ± 0.5 dBi	17.9 ± 0.6 dBi
Input Impedance		50Ω				
VSWR		< 1.5				
Polarisation		±45°				
Horizontal Beamwidth (-3 dB)		67° ± 4.5°	65° ± 4.9°	63° ± 4.8°	61° ± 4.5°	60° ± 5.1°
Vertical Beamwidth (-3 dB)		7.0° ± 0.6°	6.7° ± 0.5°	6.2° ± 0.5°	5.3° ± 0.5°	5.0° ± 0.5°
Electrical Downtilt Range		0-10°				
Cross Polar Isolation		> 28 dB				
Upper Sidelobe Suppression	First Upper Lobe	> 17 dB	> 17 dB	> 17 dB	> 16 dB	> 16 dB
	Peak to 20°	> 15 dB	> 15 dB	> 15 dB	> 14 dB	> 14 dB
Front-to-Back Ratio (@ 180° ± 30°)		> 25 dB	> 25 dB	> 25 dB	> 25 dB	> 25 dB
Cross Polar Discrimination	Main Direction	> 19 dB	> 20 dB	> 20 dB	> 19 dB	> 19 dB
	Sector Edges	> 10 dB	> 10 dB	> 10 dB	> 9 dB	> 9 dB
Maximum Power (Per Port)		250 W (at 50°C ambient temperature)				
Intermodulation 3rd (2x43 dBm Carrier)		< -153 dBc				
Grounding		DC Ground				

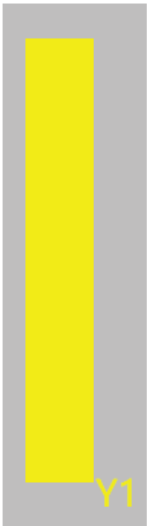
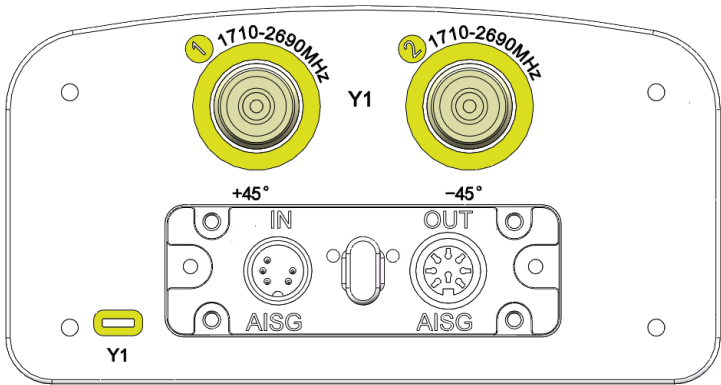


6176108G

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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	< 2 W (Idle); < 10 W (In Motion)
Accuracy	≤ 0.5°
Hardware Interface	RS485 and Power
Remote Control	Can manage from OMC, BTS/Node B
Safety Standard	Compliant to EN 60950/UL 60950/ RoHS, CE
Adjustment Cycles	> 20,000
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 Pin3: RS485+; Pin5: RS485-; Pin6: 10-30V; Pin7: GND Female connector: 8 PINs; Male connector: 5 PINs




ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	 Y1	1710-26900	1-2	4.3-10 Female

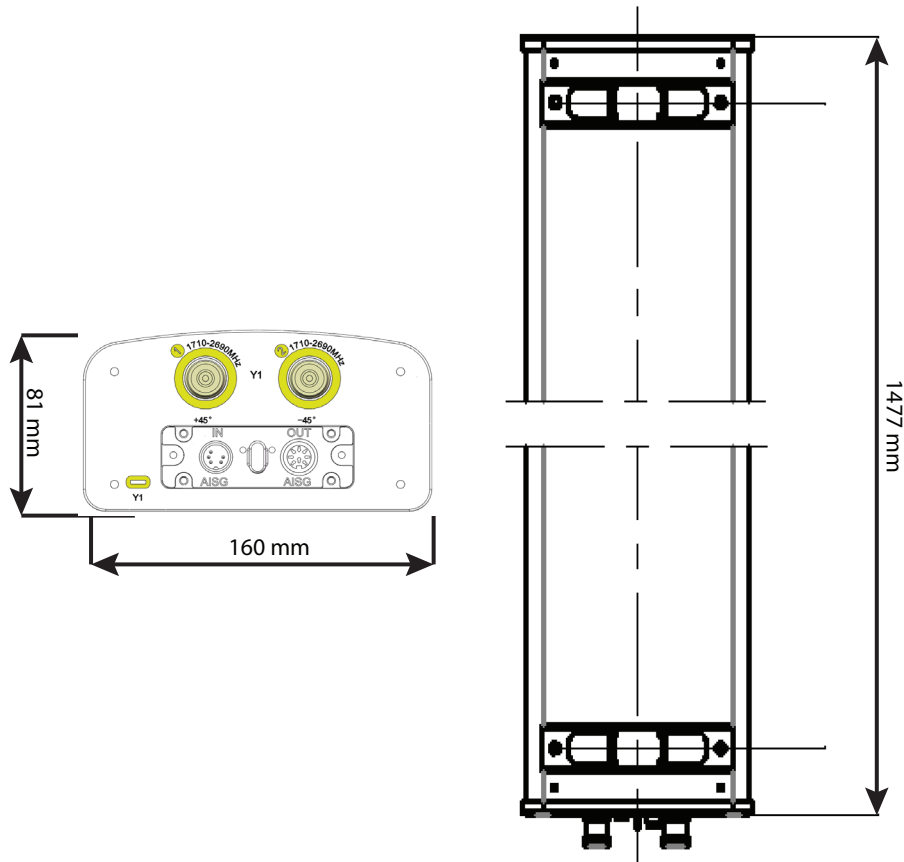
Diagram shown at right depicts the view from the front of the antenna.
The illustration is not shown to scale.

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MECHANICAL CHARACTERISTICS			PACKAGING
Dimensions (Height x Width x Depth)		1477 x 160 x 81 mm (53.4 x 6.3 x 3.2 in)	Carton Box 1.617 x 0.255 x 0.215 m (63.7 x 10.0 x 8.5 in)
Weight (excluding mounting accessory)		7 kg (15.4 lbs)	
Weight with mounting accessory		10 kg (22.0 lbs)	
Radome Material		UPVC	
Maximum Wind Speed		200 km/h (124.3 mph)	
NWind Load at 150 km/h	Frontal	220 N (49.4 lbf)	
	Rear	245 N (55.0 lbf)	
	Lateral	135 N (30.3 lbf)	
MOUNTING KIT OPTIONS		POLE DIAMETER	MECHANICAL TILT
All mounting bracket kits are ordered separately unless otherwise indicated.			
Mounting and Downtilt Bracket Kit (Included)		Ø50-Ø125 mm (Ø2.0-Ø4.9 mm)	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.