

## 5818388G

1-Band, 2-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1987 mm

- Single band antenna, dual polarisation, 2 connectors
- Continuously adjustable tilt 0-10°
- RET version, 3GPP/AISG2.0 with one integrated RCU
- Available with 7/16-DIN connectors

ORDERING OPTIONS	MODEL NUMBER
Antenna with 7/16-DIN Connectors	5818388G
ACCESS PORT DESCRIPTION (CONNECTORS)	
This antenna has 4 colour-coded connectors located at the bottom face.	
Frequency Designation	<b>R1</b>
Frequency Range	790-960 MHz
Polarisation	Xpol
Horizontal Beamwidth	65°
Electrical Downtilt Range	0-10°
Connector Type	(2x) 7/16-DIN Female

### ELECTRICAL SPECIFICATIONS Low Band

■ R1

Frequency Range		MHz	790-960	
		MHz	790-894	880-960
Polarization		---	±45°	
Gain	Mid Tilt	dBi	15.9	16.3
	Over all Tilts	dBi	15.9 ± 0.6	16.3 ± 0.6
Azimuth Beamwidth		degrees	65° ± 5.1°	63° ± 4.9°
Elevation Beamwidth		degrees	9.7° ± 0.9°	8.9° ± 0.9°
Electrical Downtilt		degrees	0°-10°	
Impedance		Ohms	50	
VSWR		---	< 1.5	
Passive Intermodulation 3rd Order for 2 x 43 dBm Carrier		dBc	< -150	
Tilt Accuracy		degrees	< 1°	< 1°
Front-to-Back Ratio, Total Power, ±30°		dB	> 25	> 25
First Upper Sidelobe Suppression (typical)		dB	> 17	> 17
Upper Sidelobe Suppression, Peak to 20°		dB	> 15	> 15
Cross Polar Ratio	Main Direction (0°)	dB	> 19	> 19
	Sector Edges (±60°)	dB	> 10	> 9
Maximum Average Input Power (50° C ambient temperature)		Watts	350 W	
InterBand Isolation		dB	> 28	



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.

## 5818388G

1-Band, 2-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1987 mm

### INTEGRATED RET PROPERTIES

Power Supply	10-30VDC Compliant with 3GPP/AISGv2.0
Power Consumption	< 2W (Idle), < 10W (In Motion)
Hardware Interface	RS485 and Power
Protocol Supported	AISG v2.0 and 3GPP
Adjustment Time (Full Range)	≤ 90 s (typical, dependent on antenna type)
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 Pin 3: RS485+; Pin 5: RS485-; Pin 6: 10~30V; Pin 7: GND Female Connector: 8 PINS, Male Connector 5-PINS



ARRAY LAYOUT	ARRAY	FREQUENCY	CONNECTOR	CONNECTOR TYPE
	■ R1	690-960	1-2	7/16-DIN Female

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

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.

## 5818388G

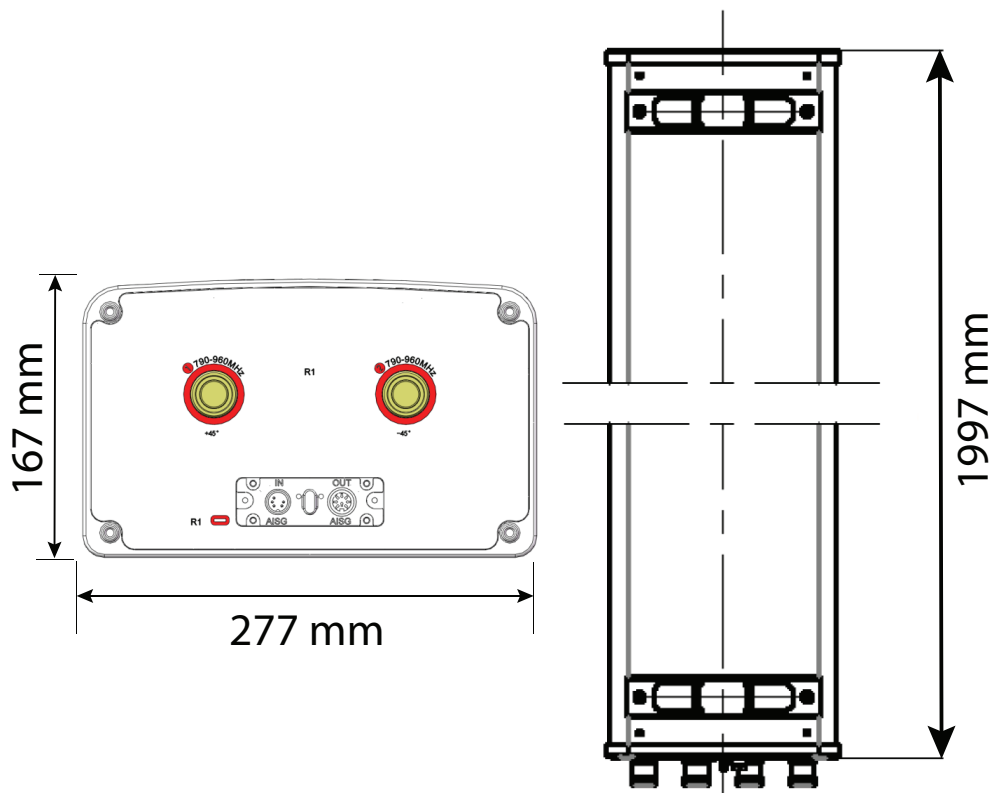
1-Band, 2-Port, 65°, XPOL, Panel Antenna, Variable Tilt, 1987 mm

### MECHANICAL SPECIFICATIONS

Length	mm (in)	1987 (78.2)	
Width	mm (in)	277 (10.9)	
Depth	mm (in)	167 (6.6)	
Net Weight - Antenna Only	kg (lbs)	16 (35.2)	
Survival Wind Speed	km/h (mph)	200 (124.3)	
Wind Load at 150 km/h	Front	N (lbf)	510 (114.6)
	Lateral	N (lbf)	570 (128.1)
Radome Material	---	UPVC	
Lightning Protection	---	Direct Ground	
SHIPPING	Dimensions	mm (in)	2187 x 372 x 287 (86.1 x 14.6 x 11.3)
	Weight	kg (lbs)	20.5 (45.1)

### ACCESSORIES All accessories are ordered separately unless otherwise indicated

ITEM	MECHANICAL TILT
Brackets for pole Ø50 to Ø125 mm (Ø2.0 to Ø4.9 in) <i>Included - delivered as standard</i>	0-12°



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.