5187300

Single Band | Panel Antenna | X-Pol | 65° | 18.5 dBi | Variable Tilt | With Integrated MHA

- Single band, X-Pol, variable tilt, panel antenna with 2 connectors
- Integrated uplink amplifier (MHA) housed in the radome shroud
- Uplink amplifier: band selective, tunable to operators UTRAN RET control: AISG v1.1 compliant
- Available as a Manual or Remote Electrical Tilt Antenna, AISG v1.1 or 3GPP/AISG v2.0
- Patented internal RET actuator adds no additional length to the antenna (field replaceable)

Ordering Options		Model Number	
Manual Electrical Tilt		5187300	
Remote Electrical Tilt AISG v1.1		5187300A	
Remote Electrical Tilt 3GPP/AISG v2.0		5187300G	
Other accessories are ordered separately.			
Electrical Characteristics			
Frequency Bands	Uplink	15 MHz Tunable in 1920-1980 MHz	
	Downlink	Full Band 2110-2170 MHz	
Polarisation		±45°	
Horizontal Beamwidth		65°	
Vertical Beamwidth		6°	
Gain	Uplink	18.5 dBi	
	Downlink	17.8 dBi	
	Amplifier Uplink	12 dB (±0.3)	
	Amplifier Noise Figure	1.2 dB typical, 1.6 dB (amplifier on)	
Electrical Downtilt		0-10°	
Impedance		50Ω	
VSWR		< 1.4:1	
Upper Sidelobe Suppression		> 18 dB	
Front-to-Back Ratio		> 30 dB	
Null Fill (First null below main beam)		> 18 dB	
Isolation Between Ports (intra-band)		> 30 dB	
IM3 (2x20W carrier)		-153 dBc	
Input Power		160 W	
Total Number of Connectors		Antenna has 2 connectors located at the bottom	
Connectors Per Band, Type, Location		2 Connectors / 7/16-DIN Female / Long Neck / Bottom	
Mechanical Characteristics			
Materials	Shroud	Styrosun / Grey RAL7035	
	Housing	Aluminium	
Dimensions (Length x Width x Depth)		1710 x 207 x 170 mm	67.3 x 8.1 x 6.7 in
Weight without Mounting Brackets, with MHA		17 kg	37.5 lbs
Operational Wind Speed		160 km/hr	100 mph
Wind Loads (160 km/hr or 100 mph)		350 N	78.7 lbf

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.

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Electrical Downtilt Control			
Manual Electrical Tilt (MET) Control	The electrical tilt is changed by turning the adjustment screw at the end of each tilt indicator with a 10 mm socket wrench.		
Remote Electrical Tilt (RET) Control	An optional RET module, already configured and compatible with 3GPP/AISG v2.0 or AISG v1.1, allows the remote control of the variable electrical downtilt. This module is fully inserted at the bottom of the antenna and does not add any additional length. The remote control of other equipments or sectors is possible by "daisy-chain" through the use of an extra AISG connector located on the RET module. The tilt indicator always stays visible and the antenna still has manual tilt control (manual override).		
RET Module	The RET module is factory installed and does not need to be ordered separately.		
	Part Number for AISG v1.1 protocol:	RETU-CA01	One unit installed in 5187300
	Part Number for 3GPP/AISG v2.0 protocol:	RETU-CGxx	One unit installed in 5187300G
Important Installation Instructions 	Do not install the antenna with the connectors facing upward.		

Mounting Options	Part Number	Image	Fits Pipe Diameter	Weight
All mounting bracket kits are ordered separately unless otherwise indicated. Select from the options listed below.				
2-Point Mounting Bracket Kit	0900181/00		48-115 mm 1.9-4.5 in	3.4 kg 7.5 lbs
Kit to Add Mechanical Tilt (0°-10°) to Above Brackets (optional)	0900396/00		---	2.3 kg 5.1 lbs

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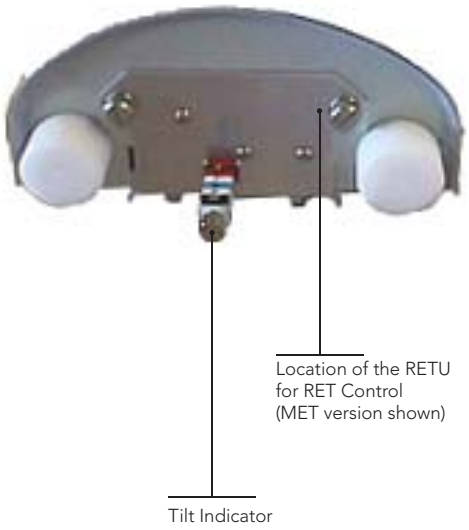
Bottom View of Antenna



Dimensions