

1.8m Vehicle Mounted Antenna

SNG-180-F-xx-D

Temix Communications SNG-180-F-xx-D 1.8m Vehicle Mounted Antenna, roof and/or trailer mounted, are designed to answer to the hardest demands of reliable operations also in extreme environmental conditions with case studies from Arctic and Tropical regions to Desert areas worldwide.

Vehicle Mounted Terminals meet the more stringent Satellite Operators requirements. This antenna system, with fully motorized drive system and autopointing features, consists of a Segmented Carbon Fiber reflector and a robust mount that results in a high performance rigid antenna especially suited for hard environmental conditions.



SPECIFICATIONS

PARAMETER	C-Band	X-Band	Ku-Band	Ka-Band
Part Number	SNG-180-F-xx-D			
Polarization	Circular/Linear	Circular	Linear	Circular
Frequency Range (GHz)	Rx: 3.625-4.200 CP Rx: 3.600-4.200 LP Tx: 5.850-6.425	Rx: 7.25-7.75 Tx: 7.90-8.40	Rx: 10.70-12.75 Tx: 13.75-14.50	Rx: 19.20-21.20 Tx: 29.00-31.00
Gain (midband)	Rx: 35.6 dBi Tx: 39.1 dBi	Rx: 41.0 dBi Tx: 41.7 dBi	Rx: 44.7 dBi Tx: 46.3 dBi	Rx: 48.9 dBi Tx: 52.3 dBi
G/T (20°EL, Clear Sky)	15.2 dB/K (30K LNB NT)	18.7 dB/K (0.7dB LNB NF)	22.5 dB/K (0.8dB LNB NF)	23.3 dB/K (1.6dB LNB NF)
EIRP	59.0 dBW/100WBUC	57.0 dBW/40W BUC	62.0 dBW/40W BUC	65.6 dBW/20W BUC
Cross Pol Isolation	> 30dB on axis	///	> 35dB on axis > 30dB in 1dB Cont.	///
Axial Ratio	< 1.3 dB	< 2.0 dB	///	< 1.0 dB
Isolation Tx/Rx	85/85 dB	90/90 dB	85/85 dB	85/85 dB
Insertion Loss Tx/Rx	0.4/0.40 dB	0.65/0.70 dB	0.3/0.25 dB	0.3/0.25 dB
Return Loss Tx/Rx	> 17dB typ.	> 17dB typ.	> 17dB typ.	> 17dB typ.
Power Handling	400W	200W	400W	100W
Feed Interfaces	WR137 / WR229	WR112 / WR112	WR75 / WR75	WR28 / WR42

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PARAMETER	
Mount Geometry	Elevation over Azimuth Motorized 3-axes for Linear C-Band and Ku-Band Motorized 2-axes for X-Band and Ka-Band Handcrank for manual adjustment
Main Dish	Carbon Fiber
Travel Range	AZ: +/-200°; EL: 5° to 90°; POL: +/-90° (Linear Polarization)
Drive Speed	AZ: 0.1°/sec to 3°/sec; EL: 0.1°/sec to 3°/sec; POL: 1°/sec
Controller	Rack Mount, Fully Automatic, Stow & Deploy, Peaking and Tracking (with Step-Track), Inclined Orbit Satellites Tracking; includes GPS & Compass, Angle Transducers and Hardware Limit Switches.
Power Consumption	< 400W (not including equipment), 240Vac 47-63Hz
Environmental	
Wind Speed	Operational 80km/h; Survival 100km/h deployed; 150km/h stowed/folded
Temperature	Operational -10°C/+50°C; Storage -30°C/+60°C (option "Extended Temperature Range": Operational -32°C/+60°C; Storage -40°C/+70°C)
Humidity	100% condensing
Altitude	Up to 5000m slm
Weight & Dimension	< 160Kg (without BUC/TWT, LNB integration, mechanical vehicle framework) Lenght: 2645 mm; Width: 1840 mm; Height: 790 mm
Colors	White RAL9010 gloss 5 (standard); Green, Desert or other colors optional
Legenda	"xx= CL" C-Band Linear Polarization, "xx= CC" C-Band Circular Polarization "xx= X0" X-Band Circular Polarization, "xx= KU" Ku-Band Linear Polarization "xx= AC" Ka-Band Circular Polarization



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