

# 1.2m Vehicle Mounted Antenna

## SNG-120-F-xx-D

Temix Communications SNG-120-F-xx-D 1.2m 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 Artic 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 feature, one button satellite acquisition within 10 minutes, 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	Ku-Band	Ka-Band
Polarization	Linear	Circular
Frequency Range (GHz)	Rx: 10.70-12.75 Tx: 13.75-14.50	Rx: 19.20-21.20 Tx: 29.00-31.00
Gain (midband)	Rx: 41.6 dBi Tx: 43.1 dBi	Rx: 45.4 dBi Tx: 48.8 dBi
G/T (20°EL, Clear Sky)	18.0 dB/K (0.8dB LNB NF)	19.6 dB/K (1.6dB LNB NF)
EIRP	58.0 dBW /40W BUC	62.0 dBW /20W BUC
Cross Pol Isolation	> 30dB on axis	///
Axial Ratio	///	< 1.2 dB
Isolation Tx/Rx	85/85 dB	85/85 dB
Insertion Loss Tx/Rx	0.3/0.25 dB	0.3/0.25 dB
Return Loss Tx/Rx	> 17dB typ.	> 17dB typ.
Feed Power Handling	200W	100W

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### SPECIFICATIONS

PARAMETER	
Mount Geometry	Elevation over Azimuth Motorized 3-axes for Ku-Band Motorized 2-axes for Ka-Band Handcrank for manual adjustment
Main Dish	Carbon Fiber
Travel Range	AZ: +/-200°; EL: 0° 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), 230Vac 50Hz
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
Weight & Dimension	< 90Kg (without BUC/TWT, LNB integration, mechanical vehicle framework) Lenght: 1756 +/-5 mm; Width: 1220 mm +/-5 mm; Height: 470 mm +/-5 mm
Colors	White RAL9010 gloss 5 (standard); Green, Desert or other colors optional
Legenda	xx= KU      Ku-Band Linear Polarization xx= AC      Ka-Band Circular Polarization



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