

1.0m Vehicle Mounted Antenna

SNG-100-F-xx-D

Temix Communications SNG-100-F-xx-D 1.0m 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 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	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: 39.7 dBi Tx: 41.1 dBi	Rx: 43.8 dBi Tx: 47.2 dBi
G/T (20°EL, Clear Sky)	16.5 dB/K (0.8dB LNB NF)	18.0 dB/K (1.6dB LNB NF)
EIRP	56.4 dBW /40W BUC	60.5 dBW /20W BUC
Cross Pol Isolation	> 35dB on axis, >26dB in 1dB Cont. ///	
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.	
Feed Power Handling	200W	100W
Feed Interface	WR75 / WR75	WR28 / WR42

Temix Communications Srl
a Temix Group Company

Via Sedicesima Strada 17, Zona Industriale
95121 Catania ITALY
T. +39 095 328 7937
F. +39 095 899 3559
Email info@temix.org | Web temix.it

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COMMUNICATIONS

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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: 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, Autopointing with GPS & Compass, Fully Automatic Stow & Deploy, Peaking and Tracking (optional Step-Track & Inclined Orbit Satellites Tracking); Integral DVB-S/S2 Receiver & Beacon Receiver; includes 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/+55°C; Storage -30°C/+60°C (option "Extended Temperature Range": Operational -32°C/+65°C; Storage -40°C/+70°C)
Humidity	100% condensing
Altitude	Up to 5000m
Weight & Dimension	< 64Kg (without BUC/TWT, LNB integration, mechanical vehicle framework) < 85Kg including base frame 1600 x 1020 x 400 mm (Stowed) 1600 x 1020 x 470 mm including base frame (Stowed)
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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