



Kebni develops, manufactures and supplies high performance SATCOM antennas for land and maritime users.



## Kebni SMV 125DA

Dual feed | Driveaway Antenna

Satmission SMV 125DA IP-SNG is a Ku/Ka-band antenna system, used by major operators on satellite networks like Eutelsat's Ka-Sat and SES Astra's OU Flex multiservice platform.

In field exchangeable feeds, no tools required Its mechanical design comes from the broadcast industry which guarantees high reliability and no lost transmissions. The antenna will work down to extreme  $-40^{\circ}\text{C}$  with the heating option.

With its low weight and small structural profile, it is easy to install onto any type of vehicle, from a small car up to a large truck. Rugged, all outdoor equipment securely protected.



### KEY FEATURES

- Eutelsat and SES Astra Approved
- One button operation
- Rapid deployment
- Low weight
- Composite performance Dish 1.25m
- Auto pointing with GPS and Compass
- Ka-band 4W BUC and Modem included
- Ku-band 16W BUC and Modem included
- Electrical and mechanical backup drive
- High Reliability and low Maintenance

Electrical Specifications	2 Port Cross-Pol Ku Band		Circular-Pol Ka Band	
	Rx	Tx	Rx	Tx
Frequency (GHz)	10.95 – 12.75	13.75 – 14.50	18.30 - 20.20	28.10 - 30.0
Gain midband, dBi	41.3 dBi	42.6 dBi	45.9,dBi	48,9dBi
Noise Temperature °K				
20 deg El			106K	
Typical G/T	20.7 dB/°K @ 11.7 GHz		22.3 dB/°K @ 19.7 GHz	
EIRP	43.6 dBW/40kHz		31.9 dBW/40kHz	
Cross Pol	≥ 25 dB within 1 dB contour		≥ 21 dB within 1 dB contour	
On Axis	-15.3 dB	-17.5 dB	-30 dB	-30 dB
Axial Ratio				
Sidelobe Compliances			Meets FCC ITU 25.209	Eutelsat ITU-580
VSWR			1.35:1	1.30:1
Isolation				
Tx/Rx			-85 dB	0 dBm input
Rx/Tx			0 dBm input	-30 dB

Mechanical Environmental Specifications	
Reflector	1.25m single offset Composite reflector
Reflector Offset Angle (deg)	21.8
Antenna Travel	
Azimuth	± 186° continuous
Elevation	5 - 75° of reflector boresight
Antenna Drive Rate	
Azimuth	4°/sec
Elevation	4°/sec
Temperature	
Operational	-30 to +50°C (down to -40°C with optional de-icing kit)
Survival	-40 to +70°C
Pointing Error	≤ 0.3°
Winds	
Operational	72 kph
Survival	110 kph any position
	220 kph stowed
Antenna Stowed Dimensions	Length: 197 cm Width: 127 cm Height: 39.5 cm
Weight	Ka version incl. BUC 68 kg. Ku version incl. BUC 71 kg
Integration	
Feedboom Mounted	4W BUC on Ka, 16W BUC on Ku
Rain	
Operational	10 cm/h
Survival	15 cm/h
Relative Humidity	0 – 100%
Solar Radiation	1000 Kcal/h/m <sup>2</sup>
Radial Ice (survival)	25 mm
Corrosive Atmosphere	As encountered in coastal and/or industrial areas

Note: Specifications subject to change without notice