



Auto-Acquire, lightweight,
single-backpack manpack terminal

Komodo-80

Motorized ManPack Satcom Terminal

Komodo-80 is a fully motorized, auto-acquire ManPack terminal equipped with an 80 cm antenna. Operating in Ka or Ku bands, with X-band available as an option, this reliable and flexible terminal supports star, mesh, and point-to-point topologies. With internal, integrated modem, it provides a streamlined, integrated communications solution



Automated Acquisition:

Features a 2-axis or 3-axis positioner for automated satellite pointing.

Integrated SATCOM Terminal:

Includes satellite Modem, IP switch and a Monitoring and Control (M&C) software package for managing embedded devices.

Rugged Portability:

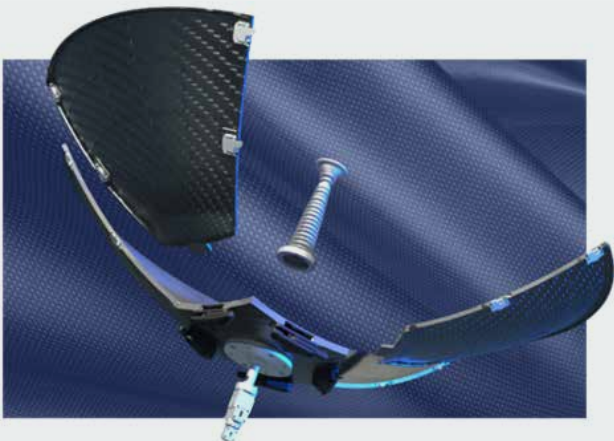
Durability and transport safety are ensured by a specially designed backpack and an optional ruggedized transit case.

Flexible Power Options:

Operates on either AC or DC power sources

Resilience:

Engineered to operate reliably across a wide range of environmental conditions.



Technical Specifications

Antenna

	Ku	Ka
Frequency band (*1)		
Dish material	Carbon fiber	Carbon fiber
Dish diameters	80 cm	80 cm
Number of panels - 80 cm dish	5	5
Azimuth	± 180°	± 180°
Elevation	0-90°	0-90°
Polarization	±95°	Circular (L/R)
Elevation Speed	12° typical	12° typical
Azimuth Speed	12° typical	12° typical

RF

TX frequency [GHz]	13.75 – 14,50	29.00 – 31.00
RX frequency [GHz]	10.70 – 12,75	19.20 – 21.20
EIRP – with 16W BUC [dBW] 16W BUC Sat (13W Lin-Ku, 10W Lin-Ka) (at mid-range)	51 (PSat.) 50 (PLin.)	57.2 (PSat) 55.4 (PLin)
Polarization	Linear/ V or H	Circular/ RHCP or LHCP
BUC power (*2)	16W (PSat.)	16W (PSat.)
LNB	PLL/Universal LNB	PLL
System G/T (elevation 30°, clear sky, at mid range)	17.7 dB/K	19.6 dB/K
Antenna TX gain	39.6 dBi	45.7 dBi
Antenna RX gain	38.3 dBi	42.6 dBi
Cross Polarization	30dB (Minimum)	-
Axial Ratio	-	<0.75dB

Mobility

Backpack / Optional transit hard case

Functionalities

Ethernet LAN (1 Gb/s) – IPv4, IPv6

GPS receiver, Compass, M&C Software

Satellites and locations database

Built-in, Integrated Satellite Modem

Angles calculation, Pointing support

Power Sources

AC: 100-240V

DC: 24-36V

Batteries BB2590/U, BB-390B/U

Environmental Conditions

Operating temperature -20° ÷ +60°

Storage temperature -30° ÷ +70°

Wind loading

- Operational: With Ballast/ Anchors: 45km/h (28.1mph)
- Survival: With Ballast/ Anchors: 72km/h (45mph)

Humidity 100 % (non-condensing)

IP Protection IP66

Weight
(backpack and BUC not included) ~ 17 kg

(*1) X-band is available as option | (*2) Other size options are available | (*3) Specifications are subject to change without notice