

2.4 Meter Nomadic

The 2.4M Nomadic is designed around a base configuration to provide modular flexibility and configurability. In addition, it is designed to be rugged and to allow for maximum compactability to withstand the demands and rigors of transport in military and commercial aircraft. The feeds are also palletized to allow for easy transport and for band changes in minutes.

ELECTRICAL

	C-band	X-band	Ku-band	K-band	Ka-band	Q-band
Tx Gain (typ. Midband)	41.3	43.6	48.2	51.0	55.3	58.0
Rx Gain (typ. Midband)	37.6	43.3	47.3	47.4	52.0	52.1
G/T (typ. Midband) ¹	18.3	23.8	26.5	26.5	28.8	28.8
EIRP (Max Theoretical)	-	-	-	-	-	-
3dB Beamwidth Rx	2.09	1.23	0.79	0.76	0.44	0.40

¹ G/T shown is typical for mid-band single thread, nominal temperature rated LNA connected directly to the feed flange and does not include post LNA contributions. See Feed sheets for more details

ENVIRONMENTAL

Operating Conditions (Typical)					
Pointing Accuracy (Degrees RMS)					
Typical (RMS)		4 GHz	7.75 GHz	12 GHz	20 GHz
	Calm	0.18	0.22	0.19	0.19
	Winds 30 gusting 45 mph	0.19	0.24	0.21	0.24
Typical (Peak)					
	Calm	0.27	0.30	0.26	0.29
	Winds 30 gusting 45 mph	0.29	0.35	0.43	0.80
	Survival	100 mph ballasted		125 mph stowed	
Temperatures		Operational		Survival	
Range		-40°C to 60°C (-40°F to 140°F)		-58°C to 71°C (-50°F to 160°F)	
Seismic	1G Vertical and Horizontal; 8.3 Richter, 11 Mercalli				
Solar Radiation	360 BTU/h/ft ² (1135 watts/m ²)				
Rain	Up to 10 cm/h (4 in/h)				
Relative Humidity	0% to 100%				
Shock & Vibration	As encountered by Air, Ship, Rail, and Truck				
Atmospheric	As encountered in moderately corrosive coastal and industrial environments				

Altitude	Operational	Survival
	Up to 12,000 ft	Up to 40,000 ft

MECHANICAL

Reflector	Multi-Band Interchangeable		
Color	White (other colors available)		
Material	Carbon Fiber		
Segments	One, Three, and Nine Segment Versions		
Controller Type	Multi Axis Tracking Controller with Auto Acquisition		
Prime Power	Indoor 110-220 VAC 50/60 Hz (Universal) Outdoor 24 VDC, 120 VAC (Field Configurable)		
Power Consumption	20A or less @ 24VDC, 5A @ 120VAC (est.)		
Motor (Az, El, and Pol)	24 VDC		
Feed Type	Prime Focus, Offset		
Mount Type	El over Az Pedestal		
Angle Transducers	19 bit optical encoder		
Angle Resolution	0.0010		
Positioning Accuracy	0.0050 (est.)		
Limit Switch	optional		
Boom/Positioner Capacity			
	Size Limit	38" x 14" x 12" (96cm x 36cm x 30cm) Boom	
	Weight Limit	220 pounds; Boom	300 pounds; Positioner
Overall Dimensions (stow)	131" L	86" W	24" H
Stow Height	<24 inches		

Azimuth	Elevation	Polarization
±150° Continuous	0° to 90° of Boresight	±100°

Maximum Travel Limits	User defineable within mechanical limits
Operate Limits	Hardware & Software Settable
Remote IDU Interconnect	Ethernet & RS232/422
Remote Interface	Remote Operation Software, SNMP V1 & V2c
IDU/ODU IFL	Single Mode Fiber Optic Cable
Optional Sensors	GPS, Compass, and Inclinometers
Controller Package	Single Box Outdoor Motor Controller 3RU 19" EIA Rack Mounted Indoor Controller