2.4 Meter Nomadic

The ASC Signal 2.4 m Nomadic is a highly flexible antenna system designed to operate on almost any satcom band and in many configurations. The entire reflector structure consists of lightweight carbon fiber panels, with multiple mounting scenarios, and can be ordered in motorized or non-motorized versions. With feeds available to address L-, C-, X-, Ku-, K-, Ka-, and Q-bands, as well as low PIM capable feeds, few applications are beyond its capabilities.

This antenna supports a variety of interchangeable feeds which are engineered for simple removal and replacement in the field. The reflector is constructed with a precision-formed honeycomb core and a carbon fiber skin which assures durability and high performance. The reflector is readily available in one-, three-, and nine-piece versions - all sharing common RF design components and performance capabilities.

The Nomadic is designed to be lightweight, with maximum stiffness, yet offers compact and highly robust components. The versatile architecture makes it ideal for launching highly divergent equipment applications using a single, flexible, modular and cost-effective equipment base.

Electronically engineered to operate at multiple frequencies, ASC Signal's 2.4 meter Nomadic is capable of transmitting and receiving signals under demanding wind loads and surviving winds up to 100 mph. Weighing less than 220 kg (480 lb), in fully motorized versions (including feeds), the tactical version can be deployed by two trained individuals within 30 minutes.

FEATURES

- Multiple Versions available
 - One-, three-, and nine-piece reflector panels

Buy Now!

ANTER PayPal Com

- Motorized and non-motorized axes
- Pedestal, Tactical and Mobile Mounts
- Six or Ten-case ISO shippable version
- Lightweight reflector , high accuracy tracking mount
- Interchangeable feed systems for quick field swaps
- Meets all applicable FCC, ITU and Mil-Spec standards
- Designed to comply with MIL-STD-810F
- Various trailer configurations are available
- Low PIM X-band available



The reflector is available in one-, three-, and nine-piece carbon fiber modular panels with latches for quick assembly

Vehicle mount version with desert tan finish

ES24 2.41 / omadic Antenna All designs, specifications, and availabilities of products and services presented in this bulletin are subject to change without notice. (0512A)

/ 2012 ASC Signal Corporation



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.

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

MECHANICAL Re

Optional Sensors

Controller Package

ELECTRICAL

	C-band	x-pand	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 C /T also we is the isol for wei	والمعتاد المتحد والم	ومحمد المحمد الم				- 41 4 - 41

¹G/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)

operating conditions (Typical)							
Pointing Accuracy (Degrees RMS)							
Typical (RMS)		4 GHz	7.75 GH	Ιz	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 gustin	0.29	0.35	0.35 0.43		0.80		
Survival	urvival		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			0°F to 160°F)			
Seismic	1G Vertical and Horizontal; 8.3 Richter, 11 Mercalli						
Solar Radiation	360 BTU/h/ft2 (1135 watts/m 2)						
Rain	Up to 10 cm/h (4 in/h)						

Relative Humidity 0% to 100%

Shock & Vibration As encounterd by Air, Ship, Rail, and Truck Atmospheric As encountered in moderately corrosive coastal and industrial environments

Reflector	Multi-Band Interchangeable			
Color	White (other colors available)			
Material	Carbon Fiber			
Segments	One, Three, and Ni	ne Segm	ent Versions	5
Controller Type	Multi Axis Tracking	g Controll	er with Aut	o Acquisition
Prime Power	Indoor 110-220 VA	C 50/60 H	Hz (Universa	al)
	Outdoor 24 VDC, 1	20 VAC (F	ield Config	urable)
Power Consumption	20A or less @ 24VE	DC, 5A @ 1	120VAC (est	.)
Motor (Az, El, and Pol)	24 VDC			
Feed Type	Prime Focus, Offse	t		
Mount Type	El over Az Pedesta	I		
Angle Transducers	19 bit optical enco	der		
Angle Resolution	0.0010			
Positioning Accuracy	0.0050 (est.)			
Limit Switch	optional			
Boom/Positioner Capacity				
Size Limit	38″x 14″x 1	2" (96cm	x 36cm x 30)cm) Boom
Weight Limit	220 pounds; Boom 300 pounds; Positi		ds; Positioner	
Overall Dimensions (stow)	131″L	80	5″W	24″H
Stow Height	<24 inches			
Azimuth	Elevation Polarization			larization
±150° Continuous	0° to 90° of Boresight		±100°	
Maximum Travel Limits	User defineable within mechanical limits			
Operate Limits	Hardware & Software Settable			
	Ethernet & RS232/422			
Remote IDU Interconnect	Ethernet & RS232/-	422		
Remote IDU Interconnect Remote Interface	Ethernet & RS232/- Remote Operation		e, SNMP V1	&V2c

Single Box Outdoor Motor Controller 3RU 19" EIA Rack Mounted Indoor Controller

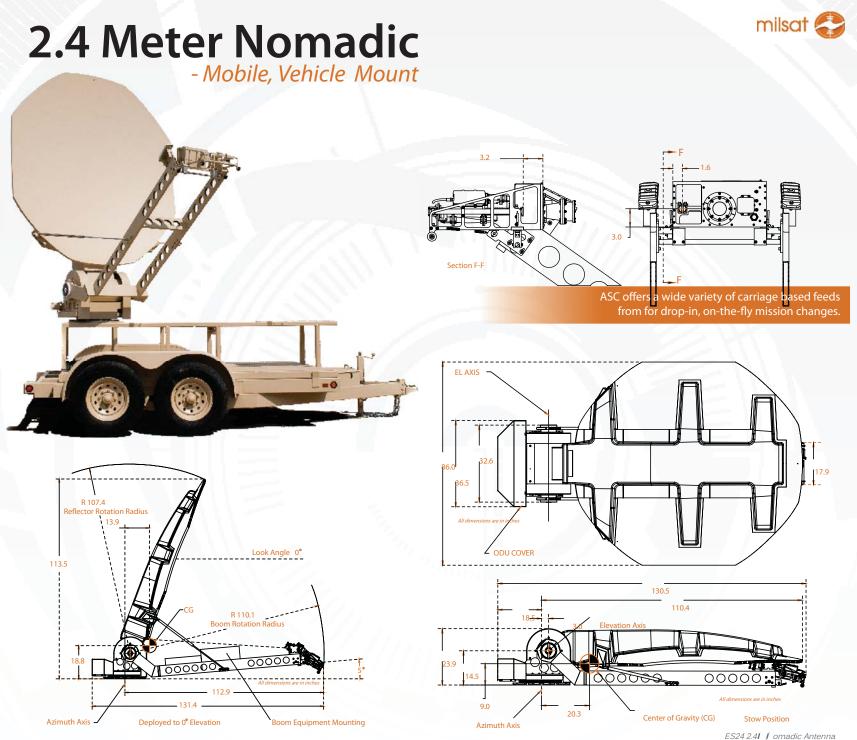
GPS, Compass, and Inclinometers

ES24 2.4 / omadic Antenna All designs, specifications, and availabilities of products and services presented in this bulletin are subject to change without notice. (0512A)

/ 2012 ASC Signal Corporation







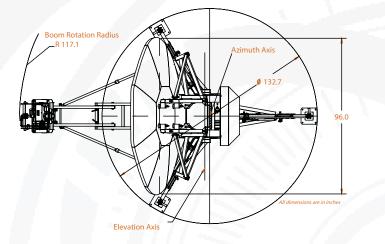
ascSignal[™]

ES24 2.41 / omadic Antenna All designs, specifications, and availabilities of products and services presented in this bulletin are subject to change without notice. (0512A)

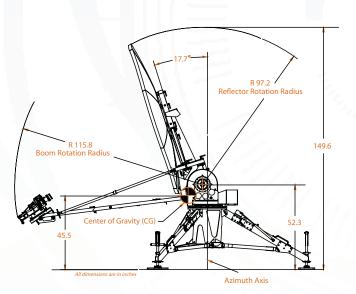


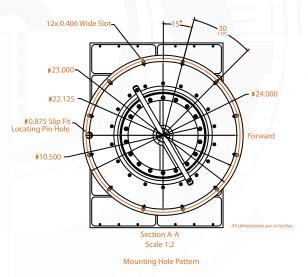
2.4 Meter Nomadic - Rugged Quick Deploy

Complete setup time with two technicians in under an hour. Feed swap outs in under 10 mintes









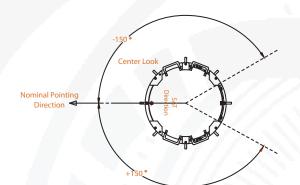
ES24 2.41 / omadic Antenna All designs, specifications, and availabilities of products and services presented in this bulletin are subject to change without notice. (0512A)



I 2012 ASC Signal Corporation



2.4 Meter Nomadic - Ground Mount Pedestal





Available in galvanized, powder coat, and CARC finishes in FS-595B Color Standards.

/ | da | \ laa \e



ascSignal[™]

RUGGED QUICK DEPLOY

Case Weights & Dimensions*

Equipment	Case	Equip Weight	Total Weight	Case Dims (inches nominal)
Pedestal Column	1	81	141	37.6 x 33.4 x 28.25
Positioner Elevation	2	194	254	37.6 x 33.4 x 28.25
Pedestal; Lower Legs	3	36	101	67.0 x 29.2 x 17.25
Feed Boom/Feed Adapter/ Struts	4	64	129	67.0 x 29.2 x 17.25
Back Frame; L & R	5	66	131	67.0 x 29.2 x 17.25
Pedestal; Upper Legs	6	138	204	67.0 x 29.2 x 19.50
RF Equipment (Feeds)	7	Var	66	67.0 x 29.2 x 19.50
Arms; L&R/ Positioner Azimuth	8	143	205	67.0 x 29.2 x 15.25
Reflector; 4 Petals	9	56	118	41.8 x 25.0 x 37.0
Reflector; 5 Petals	10	55	117	41.8 x 25.0 x 37.0
Totals	10	833	1466	

* - Approximate

Nomadic Products

in official condicts					
Part Numbering	Nine Piece	Three Piece	One Piece		
Reflector	NMD-24-9	NMD-24-3	NMD-24-1		
	Motorized Vehicle	Motorized RQD	NonMotorized RQD		
Mount	NMD-VEH-M	NMD-TAC-M	NMD-TAC-NM		
Outdoor Controller	NGC-0	DDU-24	-		
Indoor Controller	NGC	-			
Handheld Control	NGC-C	-			
IDU/ODU IFL	NGC-IFL-5M	NGC-IFL-10M	-		
NGC Options	All NGC Options are available for this Package				
Feed Systems	Se	heets			
Accessories					
Hi Accuracy Sensor Kit	NGC-SEN-24-HA				
Galvanized Pedestal	PEDMT-24				
Anchor Bolt Kit	302689				
Sandstone Paint	NMD-33510				
Olive Drab Paint	NMD-34096				
Custom Paint Color	NMD-NPN-LG				
			and and the second		

ES24 2.41 / omadic Antenna All designs, specifications, and availabilities of products and services presented in this bulletin are subject to change without notice. (0512A)

/ 2012 ASC Signal Corporation