

NEARSHORENETWORKS

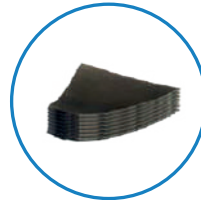
MAN PACK PORTABLE SOLUTION

DELIVERING THE BEST SOLUTIONS ON A GLOBAL SCALE

Real-time data capabilities with Near shore Networks

The MP-100-MOT is a fully motorized, auto-acquire 100cm carbon fiber man-pack antenna. This robust and lightweight system will point to any programmed satellite with just the push of a button on the 8020 Controller. This highly portable, multi-segment man-pack can be hand-carried by one person and assembled in less than 10 minutes with no tools required.

- ✔ 100 cm 7-piece carbon fibre reflector
- ✔ Single Backpack Case Solution
- ✔ Operates in Ku, Ka or X band
- ✔ Designed to work with the 8020 Controller
- ✔ Monitor and Control Via Front Panel display or Web Interface
- ✔ 2 or 3 Axis Motorization
- ✔ Supports manual control when required
- ✔ One button, auto-pointing controller acquires Ku-band satellite within 2 minutes
- ✔ Captive hardware / fasteners
- ✔ No tools required for assembly / disassembly
- ✔ Set-up time less than 10 minutes, one-person job



The MP-100 -MOT man-pack system can be easily configured to provide quick access to satellite communications for any application that requires remote connectivity in a rugged environment. Ideally suited for applications that require a quick, simple set-up; in vertical markets such as Pipeline inspection, Well intervention, emergency response, disaster management, public safety, broadcasting, media and more.

For more information contact us at comms@nearshorenetworks.com
or visit www.nearshorenetworks.com

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Mechanical

Reflector	100 cm segmented carbonfibre
Number of Petals	7
Platform Geometry	Elevation over Azimuth
Antenna Optics	Centre Feed
Deployment Sensors	GPS antenna Compass $\pm 5^\circ$ Tilt sensor $\pm 0.05^\circ$
Azimuth	360° Continuous
Elevation	5° - 90°
Polarization	$\pm 90^\circ$
Elevation Deploy Speed	Variable, 11°/sec typ.
Azimuth Deploy Speed	Variable 11°/sec typ.
Peaking Speed	11°/sec (steps in $\pm 0.01^\circ$)

Environmental

Wind loading	
Operational	45 km/h (28.1 mph)
With Ballast/Anchors	
Survival	72 km/h (45 mph)
With Ballast/Anchors	
Temperature	
Operational	-20° to 55°C (-4° to 131°F)
Survival	-30° to 60°C (-22° to 140°F)
IP Protection	IP65
Humidity	0-100% (non-condensing)

Case

Single Backpack Soft Case (Empty): 5.4 Kg (12.0 lbs)
 Size: 84 x 51 x 41 cm (33.0" x 20.0" x 16.0")
 Weight: 2-Axis (Incl. Ku Antenna(1)): 22.8 Kg (50.2 lbs)
 3-Axis (Incl. Ku Antenna(1)): 24.5 Kg (54.0 lbs)
 Optional: Hard Case Size: 94cm x 55.2cm x 41.6cm (37" x 21.75" x 16.37")
 Weight (TBD)

Electrical

DC Input: 24VDC @ 3A (RMS)	
Power Consumption:	
Idle:	12W
Operational (Max):	50W

Mode m Compatibility

The DVB-S2/ACM Tuner is an integrated part of all ManPacks. It allows the system the option to find the satellite with and without the use of a satellite modem. Compact and adaptable, this high-performance tuner is programmable to any DVB-S or DVB-S2/ACM frequency and allows the user to pre-configure specific satellite options.

Open AMIP
 Gilat - Skyedge IIc - Capricorn4 UHP - 100/200
 iDirect - Evolution - IQ200
 Newtec - Dialog - MDM3310

Ka -Band (Circular)

	Receive	Transmit
Operating Frequency (GHz)	19.20 - 21.20 ⁽²⁾	29.0 - 31.0
Midband Gain (\pm 2dBi)	44.50	47.60
Polarization X-POL	LHCP/RHCP	
Feed Interface	WR-42	WR-28
VSWR	<1.5:1	<1.25:1
Isolation (dB)	>55	>55

Ku-Band (Linear)

Transmit Power	1 to 200 watt
Feed	2 Port XPol
Frequency (GHz)	10.70 - 12.75 ⁽²⁾
Feed Interface	WR75
Midband Gain (\pm 2 dBi)	40.10
Sidelobe Envelope Co-Pol (dBi)	
100° < θ < 7°	35-25 Log θ
7° < θ < 9.2°	13.9
9.2° < θ < 48°	38-25 Log θ
48° < θ < 180°	-4 Typical
Cross-Polarization on Axis	>35 dB
Within 1dB Beamwidth	>30 dB
Tx/Rx Isolation	40 dB
VSWR	1.3:1

X-Band (Circular)

	Receive	Transmit
Operating Frequency (GHz)	7.25 - 7.75 ⁽²⁾	7.90 - 8.40
Midband Gain (\pm .5dB)	36.40	37.0
Polarization X-POL	LHCP/RHCP	
Sidelobe Compliant with	DSCS Req.	
Feed Interface	WR-112	WR-112
VSWR	<1.25:1	<1.25:1
Isolation (dB)	>23	>23

Shipping Weights & Dimensions*

Shipping Soft Case Size: 92 x 61 x 46 cm (36.0" x 24.0" x 18.0")
 Shipping Weight: 2-Axis (Incl. Ku Antenna(1)): 27.7 Kg (61.0 lbs)
 3-Axis (Incl. Ku Antenna(1)): 29.5 Kg (65.0 lbs)

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