LinkaSat-360VPR-31

AUTO ACQUISITION ANTENNA POSITIONER FOR SATELLITE COMMUNICATIONS

The LinkaSat-360VPR-31 is a Power Over Ethernet (PoE) antenna positioner designed from the ground up to automatically point and peak directional antennas for satellite communications. The LinkaSat-360VPR-31 is intended for auto acquisition and peaking of geo stationery satellites or tracking of inclined orbit satellites.

The built in GPS and digital compass with full featured web-based user interface provides rapid and accurate antenna pointing. The user interface includes a stored locations database that allows easy recall of known target locations followed by a final auto peak using radio signal strength.

The LinkaSat-360VPR-31 is typically paired with 2-3ft antennas, payloads up to 100 lbs (45.4 kg), offers 360° of azimuth and +/-95° of elevation range.

The VPR series offers continuous azimuth range of motion options are available utilizing a slip ring and RF rotary joint. Optional pole mount adapter, tripods, polarization axis, and antenna adapter brackets are also available. Download the Interface Control Drawing (ICDN900718) for more details.

TECHNICAL SPECIFICATIONS - LinkaSat-360VPR-31	
Power	
Power Over Ethernet (PoE)	50-57Vdc, 4 Pair PoE, PoH (Indoor Rated 54Vdc Supply Included)
Standby / Maximum Power Draw	<16W / 95W
Optional DC Input	20-60V
External Material / Finish	Aluminum with stainless steel hardware / Hard coat anodize
Positioner Travel	
Azimuth	440° (+/-220°)
Elevation	190° (+/-95°)
Positioner Drive Rate	
Azimuth	Variable, up to 4.6°/sec
Elevation	Variable, up to 1.2°/sec
Temperature	
Operational [1]	-4° to 140°F (-20° to 60°C) or -40 to 140°F (-40 to 60°C) with Extended Temperature Option
Non-Operational	-40° to 158°F (-40° to 70°C)
Feedback Resolution	0.1° standard or 0.01° with Encoder Options
Backlash (Az/El)	less than 0.15°
Torque	
Operational (El) [2]	135 ft-lbs (183 Nm)
Survival (Az&El)	200 ft-lbs (271 Nm)
Payload	100 lbs (45.4 kg)
Dimensions	Height: 13.50" (34.3 cm), Width: 14.44" (36.7 cm), Depth: 8.25" (21.0 cm)
Weight	42.5 lbs (19.3 kg)
Mounting Interface	See ICD for details (Uses Nextmove 4.000-P Interface)
Antenna Mount Options	See ICD for details
Communication Interface	
User Interfaces	Web based hosted internal to unit or Nextmove proprietary command protocol
Ethernet Pass Thru	1000 Mbps / 1 Gbps @ 100 MHz (Cat5e)
RF Pass Thru	(2) DC-3 GHz N Type RF, 20" (50cm)
Manual Button Function	Stow (Red Button), Acquire (Green Button), Compass Cal (Red & Green together)
Optional Signal Pass Thru	(2) 10 Pin, 24 AWG, 39" (100 cm) wire (60 Vac/75Vdc, 2A)
Optional Serial	RS-232
Optional Extended I/O	Up to 8 configurable digital inputs and 8 configurable digital outputs
Other	Satellite Modem and LoS Radio SNMP Interfaces for Acquisition and Peaking

[1] Minimum temperature specified at no load

[2] Maximum operating torque may be reduced at temperatures below -14°C and/or with use of peripheral devices

Specifications subject to change without notice

Nextmove Technologies, LLC • 1 Kerk Street • Hollis, NH 03049 • 603-654-1280 • info@nextmovetech.com • www.nextmovetech.com