LinkAlign-360MPT-30

AUTO ACQUISITION AND PROGRAM TRACKING FOR SATELLITES

The LinkAlign-360MPT-30 is a Power Over Ethernet (PoE) antenna positioner designed from the ground up to automatically point and peak directional antennas for microwave line of sight or satellite communications. The LinkAlign-360MPT-30 is intended for continuous tracking applications.

The embedded antenna controller with built in GPS and digital compass has a full featured web based user interface which provides rapid and accurate antenna pointing. The user interface includes manual control and status along with a stored satellite database and two line element set program track capability allowing for easy tracking of satellites in low or medium earth orbit.

The LinkAlign-360MPT-30 is typically paired with 2-3 ft antennas, payloads up to 100 lbs. (45.4 kg), offers 360° of azimuth and +/-95° of elevation range. Optional pole mount adapter, tripods/quadpods, polarization axis, and antenna adapter brackets are available upon request. Download the Interface Control Drawing (ICDN900850) for more details.

TECHNICAL SPECIFICATIONS - LinkAlign-360MPT-30	
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	540° (+/-270°)
Elevation	190° (+/-95°)
Positioner Drive Rate	
Azimuth	Variable, up to 16°/sec max load
Elevation	Variable, up to 5°/sec max load
Temperature	
Operational [1]	-22 to 140°F (-30 to 60°C)
Non-Operational	-40 to 158°F (-40 to 70°C)
Feedback Resolution	0.01°
Backlash (Az/El)	less than 0.1°
Torque	
Operational (El) [2]	55 ft-lbs (75 Nm)
Holding Non-Powered Az/El	8 ft-lbs / 20 ft-lbs (11 Nm / 27 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	40.5 lbs (18.4 kg)
Mounting Interface	Table top mount with optional 2" pole mount adapter (See ICD for details)
Antenna Mount Options	1/4-20 thumb nuts (tool-less) and 5/16 clearance holes (See ICD for details)
Communication Interface	
User Interfaces	Web based hosted internal to unit or Nextmove proprietary command protocol
Ethernet	10/100 Ethernet
Standard Pass Thru	DC-3 GHz RF and RJ45 for Ethernet
Optional Pass Thru	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 (See ICD for details)
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 -15°C and/or with use of peripheral devices

Specifications subject to change without notice

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