

LinkAlign-360FER-50

AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LoS & SATELLITE



The LinkAlign-360FER-50 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 and satellite communications. Satellite applications include geo stationery positioning and inclined orbit tracking.

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 or satellite slot locations followed by a final auto peak using radio signal strength. In addition, the threshold repeaking feature maintains the link's maximum quality of service by interfacing directly with your radio or satellite modem to monitor signal strength and automatically realign the link when needed.

The LinkAlign-360FER-50 is typically paired with 4-6 ft antennas, payloads up to 500 lbs (226.8 kg), and offers 360° of azimuth & +110°/0° of elevation range. Optional counterweight kit, quadpod, and antenna adapter brackets are available upon request. Download the Interface Control Drawing (ICDN900448) for more details.

TECHNICAL SPECIFICATIONS - LinkAlign-360FER-50

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	20-60 V
External Material / Finish	Aluminum with stainless steel hardware / Hard coat anodize
Positioner Travel	
Azimuth	400° (+/-200°)
Elevation	110° (+110°/0°)
Positioner Drive Rate (Az/EI)	Variable, up to 0.5°/sec max load
Temperature	
Operational ⁽¹⁾	-19 to 140°F (-28 to 60°C)
Survival	-40 to 158°F (-40 to 70°C)
Feedback Resolution	0.1°
Backlash (Az/EI)	less than 0.05°
Torque	
Operational (EI) ⁽²⁾	100 ft-lbs (135.6 Nm) or 350 ft-lbs (475.5 Nm) with optional Counterweight Kit
Survival (Az/EI)	400 ft-lbs (542.3 Nm)
Payload	500 lbs (226.8 kg)
Dimensions	Height: 19.75" (50.2 cm), Width: 26.0" (66.0 cm), Depth: 26.0" (66.0 cm)
Weight	112 lbs (50.8 kg) or 228 lbs (103.4 kg) with optional Counterweight Kit
Mounting Interface	Table top mount (See ICD for details)
Antenna Mount Options	(8) 3/8" Clearance Holes on a 25" dia Bolt Circle (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	10 Pin, 24 AWG, 39" (100 cm) wire (60 Vac/75Vdc, 2A) and RJ45 for Ethernet
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 -25°C and/or with use of peripheral devices

Specifications subject to change without notice