

LinkAlign-360FER-30

AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LoS & SATELLITE



The LinkAlign-360FER-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. 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 including a stored location database easing recall of known target locations followed by a final auto peak using radio signal strength. The threshold repeaking feature maintains the link's maximum quality of service, interfacing directly with your radio or satellite modem to monitor signal strength then automatically realign the link if needed.

The LinkAlign-360FER-30 is typically paired with 2-3 ft antennas, payloads up to 70 lbs (31.8 kg), and offers 360° of azimuth & +120°/-20° of elevation range. Optional tripods/ quadpods, table top mount, radio/antenna adapter brackets, polarization rotators and transit cases are also available. Download the Interface Control Drawing (ICDN900529) for more details.

TECHNICAL SPECIFICATIONS - LinkAlign-360FER-30

Power	
Power Over Ethernet (PoE)	50-57Vdc, 4 Pair PoE, Passive (Indoor Rated 50Vdc Supply Included)
Standby / Maximum Power Draw	<10W / 60W
Optional DC Input	20-60V
External Material / Finish	
Aluminum with stainless steel hardware / Hard coat anodize	
Positioner Travel	
Azimuth	440° (+/-220°)
Elevation	140° (+120°/-20°)
Positioner Drive Rate	
Azimuth	Variable, up to 2°/sec max load
Elevation	Variable, up to 1°/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	
Backlash (Az / El)	0.1° less than 0.15° in both axes
Torque	
Operational (El) ⁽²⁾	90 ft-lbs (122.0 Nm)
Survival (Az/El)	200 ft-lbs (271.2 Nm)
Payload	
70 lbs (31.8 kg)	
Dimensions	
Height: 13.33" (33.9 cm), Width: 8.59" (21.8 cm), Depth: 12.38" (31.4 cm)	
Weight	
24.7 lbs (11.2 kg)	
Mounting Interface	
Clamps standard to a 2" dia mast (5 cm). Optional table top mount available	
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
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 -24°C and/or with use of peripheral devices

Specifications subject to change without notice