

LinkaSat-360FER-30

AUTO ACQUISITION ANTENNA POSITIONER FOR SATELLITE COMMUNICATIONS



The LinkaSat-360FER-30 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-360FER-30 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 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 LinkaSat-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 (ICDN900885) for more details.

TECHNICAL SPECIFICATIONS - LinkAlign-360FER-30

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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	400° (+/-200°)
Elevation	140° (+120°/-20°)
Positioner Drive Rate	
Azimuth	Variable, up to 2°/sec no load
Elevation	Variable, up to 1°/sec no 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 / El)	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