

# LinkAlign-360FER-55

AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LoS & SATELLITE



The LinkAlign-360FER-55 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-55 is typically paired with 4-6 ft antennas, payloads up to 500 lbs (226.8 kg), and offers 360° of azimuth & +120°/0° of elevation range. Optional quadpod, transit case and antenna adapter brackets are available upon request. Download the Interface Control Drawing (ICDN901361) for more details.

## TECHNICAL SPECIFICATIONS - LinkAlign-360FER-55

<b>Power</b>	
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
<b>External Material / Finish</b>	Aluminum with stainless steel hardware / Hard coat anodize
<b>Positioner Travel</b>	
Azimuth	440° (+/-220°)
Elevation	120° (+120°/0°)
<b>Positioner Drive Rate (Az/EI)</b>	Variable, up to 0.5°/sec max load
<b>Temperature</b>	
Operational <sup>(1)</sup>	-40 to 140°F (-40 to 60°C)
Survival	-40 to 158°F (-40 to 70°C)
<b>Feedback Resolution</b>	0.1° (0.01° with Motor Encoders)
<b>Backlash (Az/EI)</b>	less than 0.05°
<b>Torque</b>	
Operational (EI)	290 ft-lbs (393.2 Nm) or 350 ft-lbs (475.5 Nm) with Included Counterweights
Survival (Az/EI)	400 ft-lbs (542.3 Nm)
<b>Payload (Including Counterweights)</b>	500 lbs (226.8 kg)
<b>Dimensions (Not Including Counterweights)</b>	Height: 21.43" (54.4 cm), Width: 17.30" (43.9 cm), Depth: 12.50" (31.8 cm)
<b>Weight</b>	115 lbs (52.2 kg) or 175 lbs (79.4 kg) with 60 lbs of Counterweights
<b>Mounting Interface</b>	See ICD for details (Uses Nextmove 4.750-P Interface)
<b>Antenna Mount Options</b>	See ICD for details
<b>Communication Interface</b>	
User Interfaces	Web based hosted internal to unit or Nextmove proprietary command protocol
Ethernet	1000 Mbps / 1 Gbps @ 250 MHz (Cat6)
Standard Pass Thru	(2) 10 Pin (60 Vac/75Vdc, 2A), (2) DC-3 GHz RF and RJ45 for Ethernet (See ICD for Details)
Optional Serial	RS-232 (See Supplemental ICD)
Optional Extended I/O	Up to 8 configurable digital inputs and 8 configurable digital outputs (See Supplemental ICD)
Other	Satellite Modem and LoS Radio SNMP Interfaces for Acquisition and Peaking

<sup>(1)</sup> Minimum temperature specified at no load

Specifications subject to change without notice