

# LinkAlign-360FER-20

AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LINE OF SIGHT



The LinkAlign-360FER-20 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 communications.

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 locations followed by a final auto peak using radio signal strength.

The LinkAlign-360FER-20 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. Download the Interface Control Drawing (ICD) for more details.

Optional tri-pods, table top mount, radio adapter brackets, antenna adapter brackets, polarization rotators, joysticks, and transit cases are also available.

## TECHNICAL SPECIFICATIONS - LinkAlign-360FER-20

<b>Power</b>	
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
<b>External Material / Finish</b>	Aluminum with stainless steel hardware / Hard coat anodize
<b>Positioner Travel</b>	
Azimuth	440° (+/-220°)
Elevation	140° (+120°/-20°)
<b>Positioner Drive Rate</b>	
Azimuth	Variable, up to 2.1°/sec no load
Elevation	Variable, up to 1.9°/sec no load
<b>Temperature</b>	
Operational <sup>(1)</sup>	-18 to 140°F (-28 to 60°C)
Survival	-40 to 158°F (-40 to 70°C)
<b>Feedback Resolution</b>	0.1°
<b>Backlash (Az/EI)</b>	less than 0.15°
<b>Torque</b>	
Operational (EI) <sup>(2)</sup>	60 ft-lbs (81.3 Nm)
Survival (Az/EI)	200 ft-lbs (271.2 Nm)
<b>Payload</b>	70 lbs (31.8 kg)
<b>Dimensions</b>	Height: 14.20" (36.07 cm), Width: 7.64" (19.41 cm), Depth: 9.88" (25.10 cm)
<b>Weight</b>	25 lbs (11.3 kg)
<b>Mounting Interface</b>	Clamps standard to a 2" dia mast (5 cm). Optional table top mount available
<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	10/100 Ethernet
Manual Button Function	Stow (Red Button), Acquire (Green Button), Compass Cal (Red & Green together)
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

<sup>(2)</sup> Maximum operating torque may be reduced at temperatures below -23°C and/or with use of peripheral devices