

LinkAlign-360FER-50-ET1

EXTENDED TEMPERATURE AUTO ACQUISITION ANTENNA POSITIONER
FOR MICROWAVE LoS & SATELLITE



The LinkAlign-360FER-50-ET1 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. The ET1 positioner meets torque requirements over the entire operating temperature band (-40-55°C) without the use of high power heaters. 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-ET1

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| 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 | -40 to 131°F (-40 to 55°C) |
| Survival | -58 to 158°F (-50 to 70°C) |
| Feedback Resolution | 0.1° |
| Backlash (Az/EI) | less than 0.05° |
| Torque | |
| Operational (EI) | 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 |

Specifications subject to change without notice