

LinkAlign-360MPT-25

AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LoS & SATELLITES



The LinkAlign-360MPT-25 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. The LinkAlign-360MPT-25 is intended for continuous tracking applications.

The embedded antenna controller with built in GPS and digital compass has a full featured web based user interface which provides rapid and accurate antenna pointing. The user interface includes manual control and status along with a stored satellite database and two line element set program track capability allowing for easy tracking of satellites in low or medium earth orbit.

The LinkAlign-360MPT-25 is typically paired with up to 2 ft antennas, payloads up to 50 lbs (22.7kg), and offers 360° of azimuth & +/-95° of elevation range. Optional pole mount adapter, tripods / quadpods, polarization axis, and antenna adapter brackets are available upon request. Download the Interface Control Drawing (ICDN900879) for more details.

TECHNICAL SPECIFICATIONS - LinkAlign-360MPT-25

| | |
|-----------------------------------|--|
| 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 | 190° (+/-95°) |
| Positioner Drive Rate | |
| Azimuth | Variable, up to 12°/sec max load |
| Elevation | Variable, up to 1°/sec max load |
| Temperature | |
| Operational ⁽¹⁾ | -19 to 140°F (-28 to 60°C) or -40 to 140°F (-40 to 60°C) with Extended Temperature Option |
| Non-Operational | -40 to 158°F (-40 to 70°C) |
| Feedback Resolution | 0.01° |
| Backlash (Az/EI) | less than 0.8° |
| Torque | |
| Operational EI ⁽²⁾ | 80 ft-lbs (108 Nm) |
| Holding Non-Powered (Az) | 10 ft-lbs (14 Nm) |
| Payload | 50 lbs (22.7 kg) |
| Dimensions | Height: 11.83" (30.0 cm), Width: 11.96" (30.4 cm), Depth: 6.75" (17.1 cm) |
| Weight | 25 lbs (11 kg) |
| Mounting Interface | See ICD for details (Uses Nextmove 4.000-P Interface) |
| Antenna Mount Options | See ICD for details |
| Communication Interface | |
| User Interfaces | Web based hosted internal to unit or Nextmove proprietary command protocol |
| Ethernet Pass Thru | 1000 Mbps / 1 Gbps @ 100 MHz (Cat5e) |
| Standard Pass Thru | DC-3 GHz RF and RJ45 for Ethernet |
| Optional Pass Thru | 10 Pin, 24 AWG, 39" (100 cm) wire (60 Vac/75Vdc, 2A) |
| 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