

LinkAlign-360MPT-42

AUTO ACQUISITION and PROGRAM TRACKING FOR SATELLITES



The LinkAlign-360MPT-42 is designed from the ground up to automatically point directional antennas for satellite communications.

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 which allows easy tracking of satellites in low or medium earth orbit. Nextmove also has a command line interface for customers that want to add our solution into a larger system.

The LinkAlign-360MPT-42 is typically paired with 3-4 ft antennas, payloads up to 160 lbs (72.6 kg), and offers 360° of azimuth and ±95° of elevation range. Optional cross elevation accessory available to eliminate keyhole effect for overhead passes. Download the Interface Control Drawing (ICDN900607) for more details.

TECHNICAL SPECIFICATIONS - LinkAlign-360MPT-42

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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 | 20-60V |
| External Material / Finish | Aluminum with stainless steel hardware / Hard coat anodize |
| Positioner Travel | |
| Azimuth | 480° (+/-240°) |
| Elevation | 190° Configurable to (+180°/-5°) or (+95°/-95°) |
| Positioner Drive Rate | |
| Azimuth | Variable, up to 15°/sec max load |
| Elevation | Variable, up to 3°/sec max load |
| Temperature | |
| Operational ⁽¹⁾ | -10 to 140°F (-23 to 60°C) |
| Non-Operational | -40 to 158°F (-40 to 70°C) |
| Feedback Resolution | 0.01° |
| Backlash (Az/EI) | less than 0.1° |
| Torque | |
| Operational (EI) ⁽²⁾⁽³⁾ | 100 ft-lbs (136 Nm) or 160 ft-lbs (216.9 Nm) with Included Counterweights |
| Holding Non-Powered (EI) | 34 ft-lbs (47 Nm) |
| Payload (Including Counterweights) ⁽³⁾ | 160 lbs (72.6 kg) |
| Dimensions (Not Including Counterweights) | Height: 21.38" (54.3 cm), Width: 11.50" (29.2 cm), Depth: 17.32" (44.0 cm) |
| Weight (Including Counterweights) | 99 lbs (44.9 kg) or 159 lbs (72.1 kg) with 60 lbs of Counterweights |
| Mounting Interface | See ICD for details (Uses Nextmove 4.750-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) |
| Signal Pass Thru | (2) 10 Pin, 24 AWG, 39" (100 cm) wire (60 Vac/75Vdc, 2A) |
| RF Pass Thru | (2) DC-3 GHz N Type RF, 35" (90cm) |
| Optional Serial | RS-232 (See Supplemental ICD) |
| 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 -8°C and/or with use of peripheral devices

⁽³⁾ Effort should be made to balance elevation payload as much as possible using (6) 10lb counterweights

⁽⁴⁾ Contact Nextmove for alternate configuration

Specifications subject to change without notice