

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

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