

LinkAlign-360MPT-50

AUTO ACQUISITION and PROGRAM TRACKING FOR SATELLITES



The LinkAlign-360MPT-50 is designed for Low Earth Orbiting (LEO) tracking satellite 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. Nextmove also has a command line interface for customers that want to add our solution into a larger system.

The LinkAlign-360MPT-50 is typically paired with 1.0 to 2.4 meter antennas, payloads up to 500 lbs (226.8 kg) including counterweights, and offers 360° of azimuth and $\pm 90^\circ$ (180°) of elevation range. Optional cross elevation accessory available to eliminate keyhole effect for overhead passes. Download the Interface Control Drawing (ICDN900697) for more details.

TECHNICAL SPECIFICATIONS - LinkAlign-360MPT-50

Power	
DC Input	48Vdc, 1000W (Indoor Rated Supply Included)
Standby / Maximum Power Draw	<18W / ~600W
External Material / Finish	Aluminum with stainless steel hardware / Hard coat anodize
Positioner Travel	
Azimuth	600° (+/-300°)
Elevation	180° (+/-90°)
Positioner Drive Rate	
Azimuth	Variable, up to 10°/sec max load
Elevation	Variable, up to 10°/sec max load
Temperature	
Operational ⁽¹⁾	-22 to 140°F (-30 to 60°C)
Non-Operational	-40 to 158°F (-40 to 70°C)
Feedback Resolution	0.01°
Backlash (Az/El)	less than 0.1°
Torque	
Net Operational (El) ⁽²⁾	250 ft-lbs (339 Nm)
Payload (Including Counterweights) ⁽³⁾	500 lbs (226.8 kg)
Dimensions (Not Including Counterweights)	Height: 36.80" (93.5 cm), Width: 25.40" (64.5 cm), Depth: 13.90" (35.3 cm)
Weight (Including Counterweights)	455 lbs (206 kg) including 150 lbs (68 kg) of counterweights
Mounting Interface	Table top mount (See ICD for details)
Antenna Mount Options	1/2-13 threaded holes (See ICD for details)
Communication Interface	
User Interfaces	Web based hosted internal to unit or Nextmove proprietary command protocol
Ethernet Pass Thru	100M/1000M BaseT (Gigabit Ethernet)
Signal Pass Thru	10 Pin, 24 AWG, 39" (100 cm) wire (60 Vac/75Vdc, 2A)
RF Pass Thru	DC-3 GHz N Type RF, 35" (90cm)
Serial	RS-232
Extended I/O	Up to 4 configurable digital inputs and 4 configurable digital outputs (See ICD for details)
Anemometer	Provides Automated Positioner Stow at User Specified Wind Speed
Safety	Fail Safe Motor Brakes with Manual Release, Stow Pins & Emergency Stop Button
Other	Satellite Modem and LoS Radio SNMP Interfaces for Acquisition and Peaking

⁽¹⁾ Minimum temperature specified at no load

⁽²⁾ Effort should be made to balance elevation payload as much as possible using (6) 25lb counterweights

⁽³⁾ Contact Nextmove for alternate configuration

Specifications subject to change without notice