LinkAlign-C360MPT-20-K2RF62

AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LoS & SATELLITES

nextmove TECHNOLOGIES, LLC

The LinkAlign-C360MPT-20-K2RF62 is an antenna positioner designed from the ground up to automatically point and peak directional antennas for microwave line of sight, air to ground or satellite communications. The LinkAlign-C360MPT-20-K2RF62 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-C360MPT-20-K2RF62 is typically paired with up to 2ft antennas, payloads up to 50 lbs (22.7 kg) with continuous azimuth travel and +/-90° of elevation range. This model contains a dual channel RF rotary joint (RF2 - DC-4 GHz and RF2 - DC-18 GHz) along with 9 signal pass thrus. Optional GPS heading unit, pole mount adapter, tripods/quadpods, and antenna adapter brackets are available upon request. Download the Interface Control Drawing (ICDN900952) for more details.

TECHNICAL SPECIFICATIONS - LinkAlign-C360MPT-20	
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	Continuous
Elevation	190° (+/-95°)
Positioner Drive Rate	
Azimuth	Variable, up to 12°/sec max load
Elevation	Variable, up to 11°/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/El)	less than 0.8°
Torque	
Operational El [2]	20 ft-lbs (27 Nm)
Holding Non-Powered (Az/El)	10 ft-lbs (14 Nm)
Payload	50 lbs (22.7 kg)
Dimensions	Height: 15.45" (39.24 cm), Width: 11.97" (30.40 cm), Depth: 7.36" (18.69 cm)
Weight	35 lbs (16 kg)
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
Standard RF Pass Thru	RF1 DC-4 GHz and RF2 DC-18 GHz (See ICD for details)
Standard Pass Thru	(1) 10 Pin M12 (9 Pins Active & 1 Pin n/c), 24 AWG, 39" (100 cm) wire (60 Vac/75Vdc, 2A)
Optional Ethernet Pass Thru	1000 Mbps / 1 Gbps @ 100 MHz (Cat5e)
Optional Serial	RS-232
Optional Extended I/O	Up to 8 configurable digital inputs and 8 configurable digital outputs
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 -22°C and/or with use of peripheral devices

Specifications subject to change without notice

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