

LinkAlign-360VPR-20

AUTO ACQUISITION ANTENNA POSITIONER WITH OPTIONAL ENCODERS



Optional pole mount

The LinkAlign-360VPR-20 is a Power Over Ethernet (PoE) antenna positioner designed from the ground up to automatically point and peak directional antennas for microwave or millimeter wave line of sight or satellite communications.

The built in GPS and digital compass with full featured web based user interface provides rapid and accurate antenna pointing. The user interface includes a stored locations database that allows easy recall of known target locations followed by a final auto peak using radio signal strength.

The LinkAlign-360VPR-20 is typically paired with up to 2ft antennas, payloads up to 50 lbs (22.68 kg), and offers 360° of azimuth & +/-95° of elevation range.

The VPR series offers optional encoders that improve pointing accuracy and feedback resolution in both axis. Continuous azimuth range of motion options are available utilizing a slip ring and RF rotary joint. Optional mast adapter, tripods, polarization axis and antenna adapter brackets are available upon request. Download the Interface Control Drawing (ICDN900717) for more details.

TECHNICAL SPECIFICATIONS - LinkAlign-360VPR-20

Power	
Power Over Ethernet (PoE)	50-57Vdc, 4 Pair PoE, Passive (Indoor Rated 50Vdc 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	440° (+/-220°)
Elevation	190° (+/-95°)
Positioner Drive Rate	
Azimuth ⁽³⁾	Variable, up to 4°/sec max load
Elevation ⁽³⁾	Variable, up to 1°/sec max load
Temperature	
Operational ⁽¹⁾	-4° to 140°F (-20° 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	0.1° standard or 0.01° with Encoder Options
Backlash (Az/EI)	less than 0.15°
Torque	
Operational (EI) ⁽²⁾⁽³⁾	80 ft-lbs (108 Nm)
Survival (Az&EI)	100 ft-lbs (136 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	29.5 lbs (13.4 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)
RF Pass Thru	(2) DC-3 GHz N Type RF, 20" (50cm)
Optional Signal Pass Thru	(2) 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
Other	SNMP radio Interfaces for Acquisition and Peaking

⁽¹⁾ Minimum temperature specified at no load

Specifications subject to change without notice

⁽²⁾ Maximum operating torque may be reduced at temperatures below -15°C and/or with use of peripheral devices (Supplemental Torque Derating Curve Available Upon Request)

⁽³⁾ Contact Nextmove for alternate configuration