

# QLA-360MPT-30

AUTO ACQUISITION AND PROGRAM TRACKING FOR SATELLITES



The QLA-360MPT-30 is a Power Over Ethernet (PoE) antenna positioner designed from the ground up to automatically point and peak directional antennas for microwave line of sight or satellite communications. The LinkAlign-360MPT-30 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-360MPT-30 is typically paired with 2-3 ft antennas, payloads up to 100 lbs. (45.4 kg), offers 360° of azimuth and +/-95° of elevation range. Optional pole mount adapter, tripods/quadpods, polarization axis, and antenna adapter brackets are available upon request. Download the Interface Control Drawing (ICDN900850) for more details.

## TECHNICAL SPECIFICATIONS - QLA-360MPT-30

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<b>Power</b>	
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
<b>External Material / Finish</b>	Aluminum with stainless steel hardware / Hard coat anodize
<b>Positioner Travel</b>	
Azimuth	540° (+/-270°)
Elevation	190° (+/-95°)
<b>Positioner Drive Rate</b>	
Azimuth	Variable, up to 16°/sec max load
Elevation	Variable, up to 5°/sec max load
<b>Temperature</b>	
Operational <sup>(1)</sup>	-22 to 140°F (-30 to 60°C)
Non-Operational	-40 to 158°F (-40 to 70°C)
<b>Feedback Resolution</b>	0.01°
<b>Backlash (Az/EI)</b>	less than 0.1°
<b>Torque</b>	
Operational (EI) <sup>(2)</sup>	55 ft-lbs (75 Nm)
Holding Non-Powered Az/EI	8 ft-lbs / 20 ft-lbs (11 Nm / 27 Nm)
<b>Payload</b>	100 lbs (45.4 kg)
<b>Dimensions</b>	Height: 13.50" (34.3 cm), Width: 14.44" (36.7 cm), Depth: 8.25" (21.0 cm)
<b>Weight</b>	40.5 lbs (18.4 kg)
<b>Mounting Interface</b>	Table top mount with optional 2" pole mount adapter (See ICD for details)
<b>Antenna Mount Options</b>	1/4-20 thumb nuts (tool-less) and 5/16 clearance holes (See ICD for details)
<b>Communication Interface</b>	
User Interfaces	Web based hosted internal to unit or our proprietary command protocol
Ethernet	10/100 Ethernet
Standard Pass Thru	DC-3 GHz RF and RJ45 for Ethernet
Optional Pass Thru	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 (See ICD for details)
Other	Satellite Modem and LoS Radio SNMP Interfaces for Acquisition and Peaking

<sup>(1)</sup> Minimum temperature specified at no load

<sup>(2)</sup> Maximum operating torque may be reduced at temperatures below -15°C and/or with use of peripheral devices

Specifications subject to change without notice