

QLA-360MPT-20

AUTO ACQUISITION ANTENNA POSITIONER FOR MICROWAVE LoS & SATELLITES



The QLA-360MPT-20 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 QLA - 360MPT-20 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 QLA-360MPT-20 is typically paired with up to 2 ft antennas, payloads up to 50 lbs (22.7kg), and offers 360° of azimuth & +/-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 (ICDN900879) for more details.

TECHNICAL SPECIFICATIONS - QLA-360MPT-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	400° (+/-200°)
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: 11.83" (30.0 cm), Width: 11.96" (30.4 cm), Depth: 6.75" (17.1 cm)
Weight	25 lbs (11 kg)
Mounting Interface	See ICD for details (Uses 4.000-P Interface)
Antenna Mount Options	See ICD for details
Communication Interface	
User Interfaces	Web based hosted internal to unit or proprietary command protocol
Ethernet Pass Thru	1000 Mbps / 1 Gbps @ 100 MHz (Cat5e)
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

⁽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