QLA-60EBP-10



AUTO ACQUISITION ANTENNA POSITIONER FOR MILLIMETER WAVE LINE OF SIGHT



The QLA-60EBP-10 is a Power Over Ethernet (PoE) antenna positioner designed from the ground up to point and automatically peak directional side arm mount antennas for millimeter wave 70–90GHz (E-Band) links.

E-Band systems have very narrow beam widths which require very precise pointing and stable masts to maintain a high quality link. Often these links come out of alignment or become less optimized due to thermal expansion of the tower, wind events, or other environmental conditions. The QLA-60EBP-10 corrects for these disturbances to maintain the highest Quality of Service available without the down time and reoccurring cost due to manual realignment. Initially align your link using a

smart phone, computer, or optional joystick. Once aligned, our software will maintain your link automatically based on an RSSI threshold setting or peaked on demand from anywhere on your network.

The QLA-60EBP-10 is typically paired with 1-2 ft side arm mount antennas, payloads up to 100 lbs (45.4 kg), and offers +/-30° of azimuth and elevation range. See the Interface Control Drawing (ICD) for details.

	TECHNICAL SPECIFICATIONS – QLA-60EBP-10
Power	Power Over Ethernet (POE) 48VDC-56VDC Supply Included
Material / Finish	Aluminum with stainless steel hardware / Hard coat anodize
Positioner Travel	
Azimuth	60° (+/-30°)
Elevation	60° (+/-30°)
Positioner Drive Rate	
Azimuth	Variable, up to 0.4°/sec no load
Elevation	Variable, up to 0.4°/sec no load
Temperature	
Operational	-22 to 140°F (-30 to 60°C)
Survival	-40 to 158°F (-40 to 70°C)
Feedback Resolution	0.01°
Backlash (Az / El)	less than 0.1° in both axes
Torque	
Operational (both axes)	50 ft-lbs (67.8 Nm)
Survival (both axes)	200 ft-lbs (271.2 Nm)
Payload	100 lbs (45.4 kg)
Dimensions	Height: 11.81" (30.0 cm), Width: 10.25" (26.0 cm), Depth*: 10.79" (27.4 cm)
Weight	40 lbs (18.1 kg)
Mounting Interface	Mounts to masts O.D. ranging from 3 - 4.5"
Antenna Mount Options	5/16-18 threaded holes for side arm mount antennas (See ICD for details)
Communication Interface	
User Interfaces	Web based hosted internal to unit, Pelco D,
Ethernet	10/100 Ethernet
Serial	RS-485
	* Deoth measured from center of a 4.5 in O.D. mast

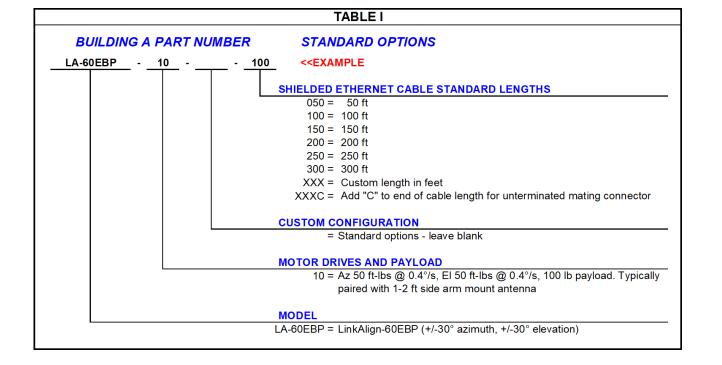
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Specifications subject to change without notice

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N500131 Rev E

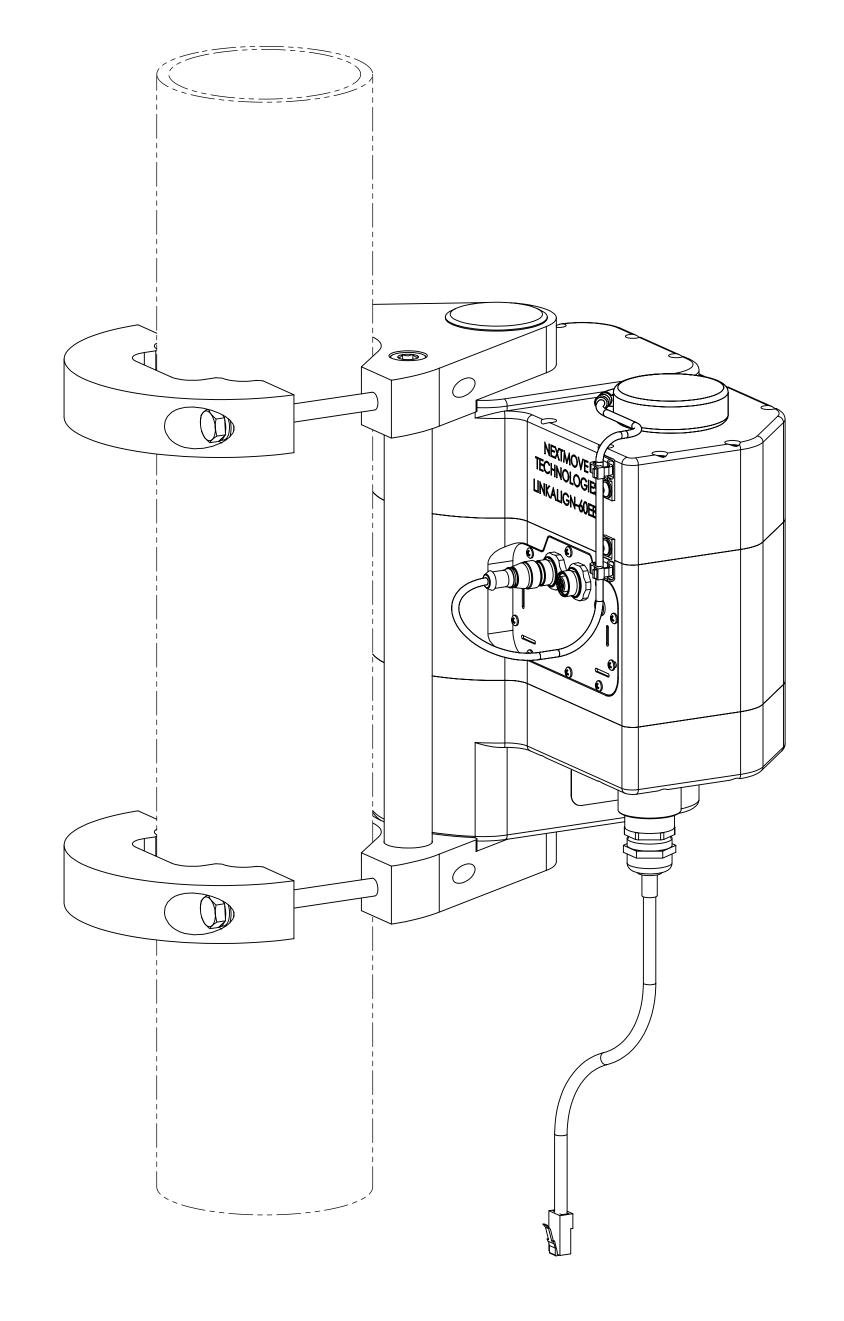
NOTES: UNLESS OTHERWISE SPECIFIED

- 1. QLA-60EBP-10 CONFIGURABLE OPTIONS PER TABLE I. PART NUMBER LA-60EBP-10-100 SHOWN THROUGHOUT THIS DRAWING. POE CABLE SHOWN NOT TO SCALE
- 2. USE INTERFACE CONTROL DRAWING IN CONJUNCTION WITH DATASHEET N500131
- 3. 48 56VDC POWER SUPPLY INCLUDED WITH POSITIONER. NOT SHOWN IN DRAWING
- 4. HARD COAT ANODIZE ALUMINUM CONSTRUCTION WITH STAINLESS STEEL HARDWARE
- 5. 60° (+/-30°) AZIMUTH TRAVEL WITH 0.4°/SEC DRIVE RATE (NO LOAD)
- 6 60° (+/-30°) ELEVATION TRAVEL WITH 0.4°/SEC DRIVE RATE (NO LOAD). POSITIONER CAN BE MOUNTED ON EITHER SIDE OF THE MAST. SOFTWARE FEATURES ALLOW FOR THE ELEVATION DIRECTION TO BE REVERSED
- 7. -22° TO 140°F (-30° TO 60°C) OPERATIONAL TEMPERATURE RANGE. -40 TO 158°F (-40 TO 70°C) NON-OPERATIONAL TEMPERATURE RANGE
- 8. 0.01° FEEDBACK RESOLUTION IN BOTH AXES
- 9. AZIMUTH / ELEVATION BACKLASH LESS THAN 0.1°
- 10 ENVELOPE DIMENSIONS WHEN MOUNTED TO A 4.5" O.D. MAST ARE 11.81" (30.0 cm) HIGH X 15.11" (38.4 cm) WIDE X 10.25" (26.0 cm) DEEP. DIMENSIONS APPLY WHEN POSITIONER IS AT 0° AZIMUTH AND 0° ELEVATION ANGLES
- 11. WEIGHT APPROXIMATELY 40 LBS (18.1 kg) NOT INCLUDING POE CABLE
- CENTER OF GRAVITY 5.2" (13.2 cm) IN THE X-DIRECTION, 0.9" (2.3 cm) IN THE Y-DIRECTION AND 0" IN THE Z-DIRECTION MEASURED FROM THE CORRESPONDING DATUM A, B, OR C
- POSITIONER CLAMPS TO 3" 4.5" OUTSIDE DIAMETER MAST (NOT INCLUDED). 4.5" O.D. MAST SHOWN THOUGHOUT THIS DRAWING
- TORQUE THE INDICATED POSITIONER CLAMP FASTENERS (3/8-16 X 4.5" LONG STAINLESS STEEL HEX HEAD SCREWS) TO 236 IN-LBS OR 20 FT-LBS
- 15. PAYLOAD SHALL NOT EXCEED 100 LBS OR 50 FT-LBS OF OPERATIONAL TORQUE ABOUT THE AZIMUTH OR ELEVATION AXIS NOTED BY DATUM C AND B RESPECTIVELY
- 16. NON-OPERATIONAL WIND LOADING TORQUE SHALL NOT EXCEED 200 FT-LBS ON THE AZIMUTH OR ELEVATION AXIS NOTED BY DATUM C AND B RESPECTIVELY
- 17 ANTENNA MOUNTING PLATE VARIES TO SUPPORT ANTENNA PAYLOADS LISTED IN TABLE I. CUSTOM CONFIGURATIONS ARE ALSO AVAILABLE UPON REQUEST
- TORQUE ANTENNA MOUNTING HARDWARE (5/16-18 X 1" LONG STAINLESS STEEL HEX HEAD SCREWS) TO 132 IN-LBS OR 11 FT-LBS

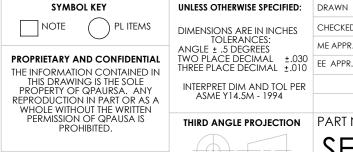


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REV DESCRIPTION DATE **APPROVED** CN600564 2018-08-06 CLC



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INTERPRET DIM AND TOL PER ASME Y14.5M - 1994 THIRD ANGLE PROJECTION SEE TABLE I DO NOT SCALE DRAWING

S. CHEYNE 2016-04-08 QPAR Antennas USA, LLC CHECKED C. CHEYNE 2018-08-06 ME APPR. 2016-04-08 TITLE: S. CHEYNE LINKALIGN-60EBP-10 EE APPR. INTERFACE CONTROL DRAWING SIZE DWG. NO.

C ICDN900374 SCALE: 1:2 SHEET 1 OF 4

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