

# QLS-LinkaSat-360FER-30

AUTO ACQUISITION ANTENNA POSITIONER FOR SATELLITE COMMUNICATIONS



The QLS-LinkaSat-360FER-30 is a Power Over Ethernet (PoE) antenna positioner designed from the ground up to automatically point and peak directional antennas for satellite communications. The QLS-LinkaSat-360FER-30 is intended for auto acquisition and peaking of geo stationery satellites or tracking of inclined orbit satellites.

The built in GPS and digital compass with full featured web-based user interface provides rapid and accurate antenna pointing including a stored location database easing recall of known target locations followed by a final auto peak using radio signal strength. The threshold repeaking feature maintains the link's maximum quality of service, interfacing directly with your radio or satellite modem to monitor signal strength then automatically realign the link if needed.

The QLS-LinkaSat-360FER-30 is typically paired with 2-3 ft antennas, payloads up to 70 lbs (31.8 kg), and offers 360° of azimuth & +120°/-20° of elevation range. Optional tripods/ quadpods, tabletop mount, radio/antenna adapter brackets, polarization rotators and transit cases are also available.

## TECHNICAL SPECIFICATIONS - LinkaSat-360FER-30

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<b>Power</b>	
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
<b>External Material / Finish</b>	Aluminum with stainless steel hardware / Hard coat anodize
<b>Positioner Travel</b>	
Azimuth	400° (+/-200°)
Elevation	140° (+120°/-20°)
<b>Positioner Drive Rate</b>	
Azimuth	Variable, up to 2°/sec no load
Elevation	Variable, up to 1°/sec no load
<b>Temperature</b>	
Operational <sup>[1]</sup>	-19 to 140°F (-28 to 60°C)
Survival	-40 to 158°F (-40 to 70°C)
<b>Feedback Resolution</b>	0.1°
<b>Backlash (Az/El)</b>	less than 0.15°
<b>Torque</b>	
Operational (El) <sup>[2]</sup>	90 ft-lbs (122.0 Nm)
Survival (Az/El)	200 ft-lbs (271.2 Nm)
<b>Payload</b>	70 lbs (31.8 kg)
<b>Dimensions</b>	Height: 14.08" (35.8 cm), Width: 8.57" (21.8 cm), Depth: 11.38" (28.9 cm)
<b>Weight</b>	24.7 lbs (11.2 kg)
<b>Mounting Interface</b>	Clamps standard to a 2" dia mast (5 cm). Optional table top mount available
<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 Nextmove proprietary command protocol
Ethernet	10/100 Ethernet
Manual Button Function	Stow (Red Button), Acquire (Green Button), Compass Cal (Red & Green together)
Other	Satellite Modem and LoS Radio SNMP Interfaces for Acquisition and Peaking

<sup>[1]</sup> Minimum temperature specified at no load

Specifications subject to change without notice

<sup>[2]</sup> Maximum operating torque may be reduced at temperatures below -24°C and/or with use of peripheral devices