

L-Com HG2327G Directional Dish Antenna

https://www.l-com.com/Images/Downloadables/Datasheets/ds_HG2427G.pdf

automatically tracking the aircraft using the

Moog MPT-90 Positioner

https://www.moogs3.com/content/dam/moog/literature/MoogS3/Specsheets/positioners/MPT_90.pdf

HyperLink Wireless 2.4 GHz 27 dBi Die Cast Grid Antenna Model: HG2427G

Applications

- 2.4 GHz ISM band
- IEEE 802.11b/g/n Wireless LAN, WiFi systems
- Long range direction, Point to Point and Point to Multi-point systems
- Wireless bridges and backhaul applications
- Wireless video systems

Features

- Die cast aluminum construction with UV stable white ivory finish
- All weather operation
- 6° beam-width
- 4 piece grid, easy to assemble
- Mounting bracket included



Description

The HyperLink HG2427G High-Performance Reflector Grid Wi-Fi Antenna provides 26.5 dBi gain for long-range highly directional applications. Applications include point to point systems, point to multi-point and wireless bridges in the 2.4GHz ISM band as well as IEEE 802.11b/g/n applications. It can be installed for vertical or horizontal polarization.

This antenna's construction features a die cast aluminum reflector grid for superior strength and light weight. The 4-piece reflector grid design is simple to assemble and significantly reduces shipping costs. The grid surface is UV powder coated for durability and aesthetics. The open-frame grid design minimizes wind loading.

The HG2427G antenna is supplied with a 60 degree tilt and swivel mast mount kit. This allows installation at various degrees of incline for easy alignment.



Specifications

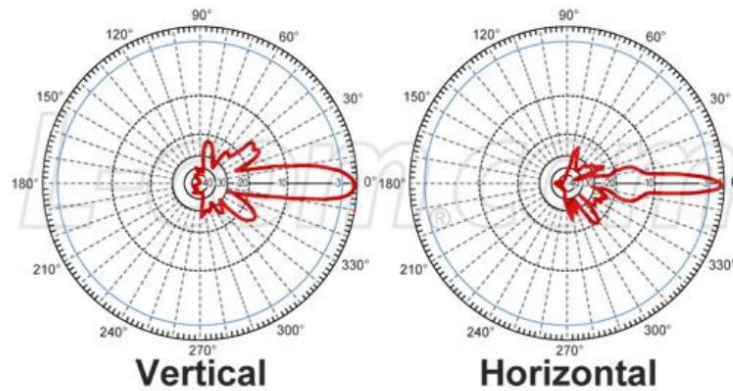
Electrical Specifications

Frequency	2400-2500 MHz
Gain	26.5 dBi
Polarization	Vertical or Horizontal
Horizontal Beam Width	6.5°
Vertical Beam Width	8°
Front to Back Ratio	30 dB
Impedance	50
Max. Input Power	100 Watts
VSWR	< 1.4:1 avg.
RoHS Compliant	Yes
Lightning Protection	DC Ground

Mechanical Specifications

Weight with mounting bracket	15.8 lbs. (7.1 kg)
Grid Dimensions	47.2 x 35.43 in. (1200 x 900 mm)
Mechanical Tilt	H: 360° V: ±45°
Operating Temperature	-40° F to 140° F (-40° C to 60° C)
Connector	N-Female
Mounting Hardware Diameter	1.96 – 4.5 in. (50 – 115 mm)
Rated wind velocity (mile/h)	134

RF Antenna Gain Patterns



MPT-90

PAN & TILT POSITIONERS



The MPT (Moog Pan and Tilt) Positioner Series leverages the strength and reliability of Moog legacy products and is improved with an enhanced electronics package offering new advantages to mission critical applications.

MPT Positioners are equipped with an integrated Health and Usage Monitoring System (HUMS). This provides intelligence to users regarding the condition of payloads, allowing for preventative maintenance to extend the life of critical equipment. An embedded web server enables easy discovery and control of all positioners and integrated components on a network thereby eliminating the need for 3rd party software. Expanded velocity control offers the MPT finer resolution of speed and acceleration control, ultimately improving tracking and scaling applications. Users will enjoy the capacity of multiple configurable communication ports for convenient payload integration and communication.

KEY FEATURES

Control and Configurability

- Embedded web server
- Serial or Serial over IP control up to 99Hz
- Health and usage monitoring
- HD-SDI slip ring models available
- Continuous Rotation available
- Multiple payload communication ports:
4 configurable serial, 2 TTL and 1 IP port
- 10-bit linear response velocity control
- Standardized connectors
- GPS capability

Robust and reliable mechanical design

- Payload capacity up to 100 pounds
- Provides up to 90 foot pounds of elevation torque
- Versatile platform design for ease of customization
- Tabletop design accommodates a wide variety of payloads



MPT-90

SPECIFICATIONS

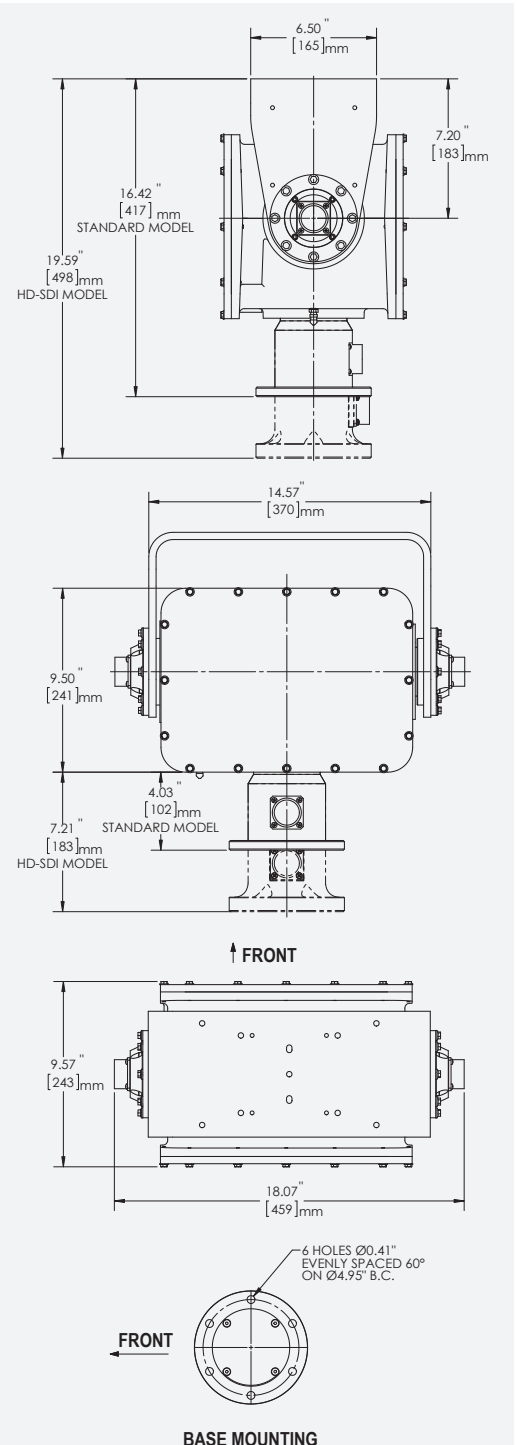
Payload Capacity	100 lb
Payload Rated Load Torque (Elevation)	90 lb-ft (122 N-m)
Positioner Power Consumption	
Max (simultaneous P&T move)	<5.0 A peak, <4.0 A continuous at 24 VDC
Standby (Idle, without heater)	650 mA.
Heater Power (switchable)	100 W
Operating Voltage Range	24 to 28 VDC Nominal
Azimuth - Pan	
Range of Travel	Continuous, 435° models available
Speed (@ rated load, nominal voltage)	0.005°/s to 25°/s
Elevation - Tilt	
Range of Travel	180° (± 90° from horizon)
Speed	0.005°/s to 8°/s (90 lb-ft load)
Minimum Incremental Move (Az and/or El)	0.01°
Rotation Limits	
Software Adjustable Limits	Individually adjustable azimuth and elevation (all models)
Mechanically Adjustable Switches	Individually adjustable azimuth & elevation (435° model), Adjustable elevation (continuous rotation models)
Position Feedback	
9000 Line Encoder	Azimuth and Elevation
Resolution	0.01°
Position Repeatability	0.05°
Environmental	IP67
Operating Temperature	
without heater	-15° to 55°C (5° to 131°F), 100% RH
with internal heater	-32° to 55°C (-25.6° to 131°F), 100% RH
Storage Temperature	-40° to 70°C (104° to 158°F)
Construction	Cast Aluminum Housing, Stainless Steel Hardware
Drive System	1.8° stepper motors, Hardened Steel Worm Drive Geartrain
Exterior Finish	Powder Coat White, special finishes available
Weight	HD-SDI model: 74 lb Standard model: 71 lb
Dimensions	HD-SDI model: 19.59 in H x 18.07 in W x 9.57 in D (498 x 459 x 243 mm) Standard model: 16.42 in H x 18.07 in W x 9.57 in H (417 x 459 x 243 mm)
Command and Control	Integral Web Server
Protocol	Moog PTZ Protocol*, Pelco D (Limited)
Resolution of Velocity Commands	10-bit, linear response
Power Outputs to Payload	
24 VDC - user on/off switchable	5 Amp Max.**
12 VDC - user on/off switchable	5 Amp Max.**
5 VDC - user on/off switchable	4.8 Amp Max.**
Health Monitoring w/Real Time Clock	
Power On and Run Time Monitoring	Included
Voltage Monitoring	Input and User 24 V, 12 V & 5 V Outputs
Current Monitoring	User 24 V, 12 V & 5 V Outputs
Communication Interfaces to Payload	
Serial (RS232, RS422, RS485 configurable)	4
TTL	2
IP	1
Connector to Positioner	53 conductor D38999
Connector to Payload	53 conductor D38999 (x2)

* backward compatible with PTCR-96

** total payload current limited to 8A, power may be increased with higher supply voltage.

Specifications subject to change.

DIMENSIONS



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