



**OISL  
COARSE  
POINTING  
ASSEMBLY**

**Honeywell**

# OISL COARSE POINTING ASSEMBLY

The Coarse Pointing Assembly (CPA) is a two-axis gimballed mirror for independent steering of optical communication terminals.

It mounts at the input (large aperture) of the terminal telescope and enables the terminal to operate without constraining the satellite attitude, which means multiple terminals on a single bus can operate simultaneously. Designed for intersatellite links in high LEO orbits, it is sized for an up to 10cm telescope aperture and a 10-year lifetime. This CPA is intended to support the high-performance, low-cost needs of constellation markets and is therefore optimized to facilitate high-rate production.



## GENERAL SPECIFICATION

Aperture	up to 100mm
Mirror surface quality	Various mirror substrates and coatings are available depending on the specific mission requirements
Azimuth axis	Scan angle $\pm 176^\circ$ Slew rate 0.5°/s
Elevation axis	Scan angle $0^\circ$ to $+16.5^\circ$ Slew rate 0.015°/s
Temperature range (deg C)	-20°C to 40°C operating on baseplate -45°C to 75°C non-operating
Power consumption	2W nominal (9.5W max over temp range)
Input voltage	+5 VDC nominal
On-orbit lifetime	2yrs non-op/10yrs op
Mass	<6.5kg
Size (W x L x H mm)	305 x 282 x 297

## MAIN FEATURES

- Highly-precise brushless DC motors and precision encoders for pointing accuracy
- A sensorless open-loop version is under development for greater radiation tolerance
- Design is scalable to smaller apertures if required to save mass
- Hood enclosure for low stray light and improved thermal environment of mirror
- Customizable elevation range (impacts mirror size)

### For More Information

To find out more about our offering, visit [aerospace.honeywell.com/en/product-listing/space](https://aerospace.honeywell.com/en/product-listing/space) or contact us at [aero.marketing@honeywell.com](mailto:aero.marketing@honeywell.com)

### Honeywell Aerospace

1944 E. Sky Harbor Circle  
Phoenix, AZ 85034  
[aerospace.honeywell.com](https://aerospace.honeywell.com)

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