3POD

Tripod

Comat has developed an innovative antenna-pointing mechanism, in collaboration with the French Space Agency (CNES).

This equipment is intended for X band telemetry downlink to be flown onboard next generations of Earth Observation satellites. The Tripod orients a Ø220 mm high-gain parabolic X-band antenna.

Main benefits

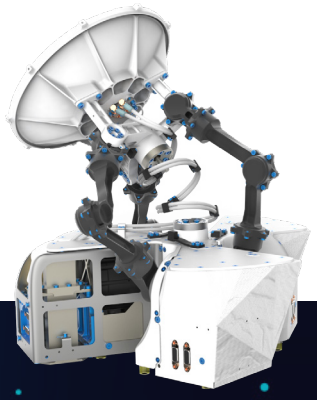
- ✓ A unique parallel architecture offering
- ✓ 3 degrees of freedom (Azimuth, Site, Zoom)
- ✓ Excellent agility for antenna-pointing applications
- ✓ Infinite azimuth turns
- ✓ Dual polarization through 2 RF cables, without slip rings
- ✓ Very low jitter thanks to a reduced mobile mass (since the 3 actuators remain stationary on the baseplate)
- ✓ Easy-to-use central hold down & release system
- ✓ ITAR-free
- ✓ Compliant with ECSS standards.

AFAQ ISO 9001

ITAR FREE
International Traffic in Arms Regulations

afaq EN/AS/JISQ 9100 Aéronautique AFNOR CERTIFICATION

En partenariat avec
cnes
CENTRE NATIONAL D'ÉTUDES SPATIALES



Key features

Precision
1° (worst case)

Maximum pointng speed
in tracking mode
5°/s

Pointing domain
+/-74° elevation

Initialization time
< 15s

Station transition time
8s (average) / 25s (worst case)

Infinites azimuth rotation
360°

Lifetime on low Earth orbit
10 years

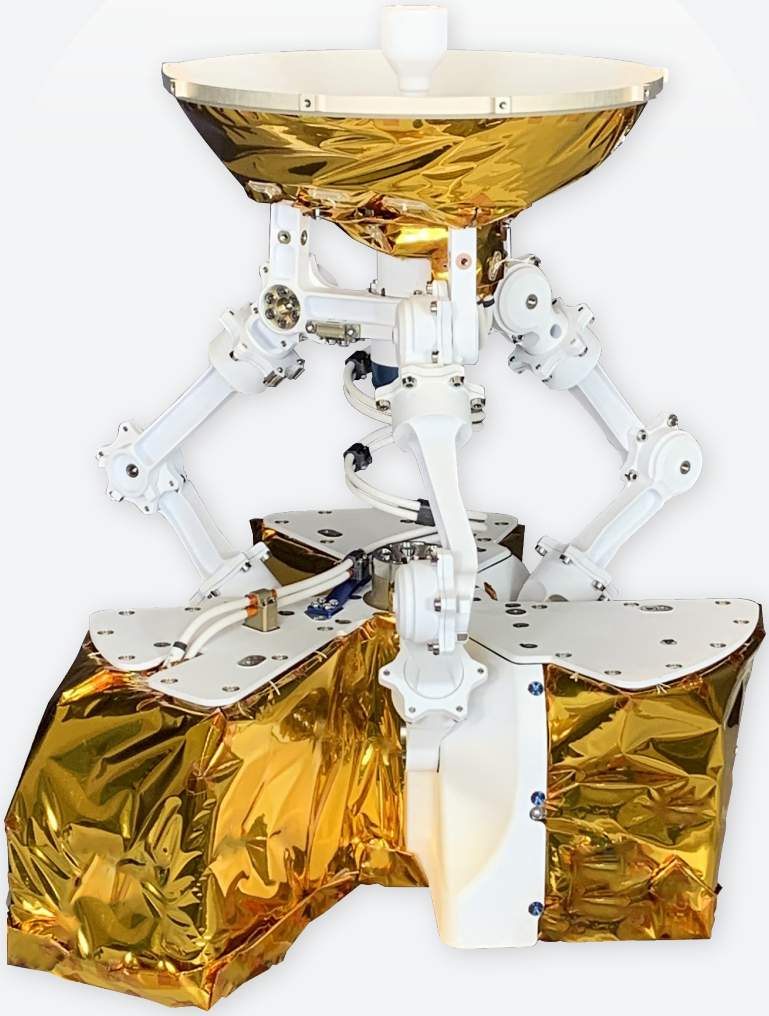
Data rate
2 Gbps with low insertion loss (<1.5 dB @ pointing system level)

comat
INSPIRED BY SPACE

6 Chemin de Vignalis, 31130 Flourens, FRANCE
+33(0)5 612 426 16 | info@comat.space
comat.space

Mechanism

TRIPOD



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