

SPACECRAFT SYSTEMS

Micro Inertial Attitude Sensor

Developed using MEMS technology, this sensor employs MEMS gyroscopes as its core measurement components.

TECHNICAL SPECIFICATIONS

| SPECIFICATIONS             |                      |
|----------------------------|----------------------|
| Model                      | C-IAS-M-EMS-4        |
| Measurement Accuracy       | < 3.3°/h             |
| Flight Heritage            | First flight in 2015 |
| Application                | Microsatellite       |
| Dimensions (mm)            | 100 × 100 × 80       |
| Weight (g)                 | 700                  |
| Power Consumption (W)      | 3.6                  |
| Operating Temperature (°C) | -25 to +50           |
| Storage Temperature (°C)   | -35 to +55           |
| Communication Interface    | RS-422               |

Quick Overview

Developed using MEMS technology, this sensor employs MEMS gyroscopes as its core measurement components.

Key Specifications

| Parameter                  | Value                |
|----------------------------|----------------------|
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Key Features

- Modular design based on MEMS technology.
- High precision and stability.
- Lightweight, compact, and low power consumption.

- Wide measurement range and high bandwidth.

## Applications

- Used in microsatellite attitude determination and orbit control subsystems requiring compact, high-performance inertial sensing.

## Documentation & Resources

- [Technical Specifications](#)
- [Applications](#)