

SPACECRAFT SYSTEMS

# Micro-Nano Satellite Position Control Integrated Module

The Micro-Nano Satellite Position Control Integrated Module adopts a compact monopropellant propulsion system using green propellant. It provides reliable and efficient attitude and orbit control capabilities for micro and nano satellites through a simplified structural design and high system reliability.

TECHNICAL SPECIFICATIONS

| SPECIFICATIONS             |                            |
|----------------------------|----------------------------|
| Dimensions (mm)            | 280 × 250 × 400            |
| Dry Mass (kg)              | 1.8                        |
| Propellant                 | HAN-Based Green Propellant |
| Operating Temperature (°C) | 5–60                       |
| Storage Temperature (°C)   | 0–65                       |

## Quick Overview

The Micro-Nano Satellite Position Control Integrated Module adopts a compact monopropellant propulsion system using green propellant. It provides reliable and efficient attitude and orbit control capabilities for micro and nano satellites through a simplified structural design and high system reliability.

## Key Specifications

| Parameter                  | Value                      |
|----------------------------|----------------------------|
| Dimensions (mm)            | 280 × 250 × 400            |
| Dry Mass (kg)              | 1.8                        |
| Propellant                 | HAN-Based Green Propellant |
| Operating Temperature (°C) | 5–60                       |
| Storage Temperature (°C)   | 0–65                       |

## Key Features

- Monopropellant propulsion system.
- Uses a non-toxic propellant (HAN-based).
- Simple structure with high reliability.

## Applications

- Successfully applied in **PN-1A** and **PN-2A** satellites with verified flight experience.

## Documentation & Resources

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