

PRECISION TIMING

Space-borne Rb Atomic Clock (Custom)

High-precision space-borne rubidium atomic clock designed for navigation satellites, communication satellites, and space stations, featuring exceptional frequency stability and radiation resistance.

Overview

The **Space-borne Rb Atomic Clock** is a custom-designed high-precision timing solution specifically engineered for space applications. For detailed information, please [contact us](#).

Application

- Navigation satellite
- Communication satellite
- Space station etc.

Main Specifications

Performance Specifications

Parameter	Typical
Frequency Stability(10MHz)	$\leq 1 \times 10^{-12}/1s$ $\leq 3 \times 10^{-13}/10s$ $\leq 1 \times 10^{-13}/100s$ $\leq 3 \times 10^{-14}/1000s$ $\leq 1 \times 10^{-14}/10000s$ $\leq 1 \times 10^{-14}/1day$ Floor 1.010^{-14}
Drifting Rate	$\leq \pm 1 \times 10^{-13}/day$
Temperature Accuracy	Better than $\pm 1 \times 10^{-13}/^{\circ}C$
Radiation Dose	150krad (si)
External Dimension	240*148*140(mm³)
Weight	≤4.7kg
Power Consumption	Steady consumption < 28W

Note: Be able to provide physics system separately.