Frequency Sources
Solutions Overview

Orolia is a world leader in high-end crystal, rubidium, maser and integrated GPS/GNSS clocks, as well as related testing instrument technologies for space missions that rely on high precision atomic clock technology.
Technical Specifications: SecureSync SAASM

Orolia Frequency Source Solutions

LPFRS
Rubidium Oscillator

VersaSync Mobile Time
and Frequency Source

iMASER-3000
Active Hydrogen Maser

RB-1500
Low Noise Master
OCXO Oscillator

OCXO Oscillator

Global Navigation
Satellite Systems

Communication
Satellite Systems

Deep Space Object

Radio Astronomy

Aircraft and Space Solutions

SATCOM
Ground Stations

GNSS
Ground Monitoring
Stations

Precision Timing
- Secure, reliable, accurate time servers
- Synchronizing critical networks
- Ensuring system integrity

Resilient PNT
- Failsafe PNT data
- PNT signal generation
- RF cybersecurity
- PNT consulting and testing services
Focus on Rubidium Oscillators

Orolia provides a broad range of smart, low-cost, lightweight, high reliability clock and test products for next generation space systems, including a full range of Rubidium oscillators.

Rubidium oscillators are the most affordable and compact atomic clock time standard.

They are used in time distribution services to synchronize various types of systems such as telecom infrastructure, datacenters, TV broadcasts and global navigation satellite systems (GNSS).

Applications

Rubidium oscillators are typically used in the following applications:

- Mobile & wired telecom infrastructure
- Broadcasting systems
- Military communications, surveillance, tracking & guidance systems
- High precision instruments
- Time & frequency systems
- Datacenters

About Orolia

Orolia is the primary provider of atomic clocks for the Galileo GNSS satellite system and many other high precision timing initiatives in space.

We design, manufacture and market a full range of high-performance, low-cost crystal, rubidium and maser sources, smart integrated GPS/GNSS reference clocks, and clock testing systems.

These products are used in a wide variety of applications, including telecommunications, defense, navigation, instruments, broadcasting, and space.