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**SpectraTime, an Orolia Company,  
Introduces Industry's First GPS-Synchronized Crystal  
SynClock+™ Engine**

*Patented Low-Cost SXO-75 Clock with Advanced SmarTiming+® Technology Inside  
Cost-Cutting Clock Eliminating the Need for a Complex External Sync Circuit Board*

**Neuchatel, November 26, 2007** - The first synchronized crystal SynClock+ engine, offering integrated synchronization functionality to eliminate the need for an external GPS sync circuit in many applications, was announced today by SpectraTime, a global leading supplier of low-cost, smart rubidium and crystal high precision timing solutions, at the PTTI show in Long Beach, CA (<http://tycho.usno.navy.mil/ptti.html>).

The SpectraTime SXO-75 is a patented, low-cost synchronized crystal clock, which features a host of value-added integrated synchronization functions through its advanced SmarTiming+ technology. It allows customers to reduce cost and size by integrating synchronization features into one standard package, where they were previously implemented externally on a complex, separate circuit board.

**Main characteristics of the new SXO-75 Clock --**

SmarTiming+ provides a multi-vendor GPS interface, auto-adaptive filtering of jitter, wander and noise at state-of-the-art 1 nanosecond resolution for up to 100,000 seconds, programmable outputs and phase offset adjustments. In addition, it provides complex stability over temperature behavior modeling, programmable GPS-phase sync or reference frequency track mode, and an EEPROM device for seamless frequency calibration and software upgrades.

The SXO-75 is compatible with the smart Rubidium SRO-100, enabling customers to design one circuit seamlessly incorporating two types of clock technology at different price levels. The new smart SynClock+ is targeted at telecommunications, navigation, defense, broadcasting, and instrumentation applications. It offers customers in these markets with core, off-the-self timing know-how so they can focus on their core expertise, while reducing cost and shortening time-to-market issues.



**New SXO-75 Clock**



### **Availability**

The SXO-75 is readily available now, and is priced at less than \$400 in large quantities. For more information about the smart SXO SynClock+, visit our website at [www.spectratime.com](http://www.spectratime.com)

### **About SpectraTime**

SpectraTime, a company of the Orolia group, is a leading designer and manufacturer of advanced, low-cost rubidium and crystal oscillators, atomic clocks, smart GPS and multi-reference synchronized clocks, integrated GPS systems and high-precision instruments. Its products are used in a wide variety of high-performance applications including telecommunications, defense, navigation, instrumentation, broadcasting and space.

<http://www.spectratime.com>

### **About Orolia SA**

Orolia, a precision electronics technology group, brings together branded leading-edge companies specialized in high-precision time and frequency solutions systems for mission-critical applications. Orolia includes three companies: Spectratime, Spectracom and T4 Science. Orolia's companies develop and market systems that produce and distribute ultra-high precision signals through information networks in large and growing high-end markets, such as space and navigation, defense and security as well as telecommunications and broadcasting. These systems are deployed in a number of countries in Europe, Asia and North and South America. Orolia has committed to an accelerated growth strategy through acquisitions (companies, products, technologies).

Orolia's headquarters is located in Les Ulis, France, and the company also has offices in Neuchatel, Switzerland and Rochester, New York. <http://www.orolia.com>