

FOR IMMEDIATE RELEASE

PRECISE REAL TIME CLOCK IS HIGHLY AFFORDABLE

Grenchen, November, 2010:

For cost-sensitive, high-volume applications that require an ultra-miniature Real Time Clock, Micro Crystal is introducing the world smallest integrated Real Time Clock Module RV-4162-C7 at Electronica 2010, November 9-12, 2010 in Hall A4 Booth 206. It is ideal for compact battery-powered devices, where its wide 1.3 to 4.4V operating range provides added flexibility. Timekeeping will function down to 1.0V with a current consumption of only 270nA typical. Communications with other circuitry is simplified by an I²C Bus.



The 8 pin ceramic package contains a 32.768 kHz crystal, matched with a CMOS-based oscillator and real-time-clock circuitry. At room temperature, frequency and time keeping is within +/-20ppm with an operating temperature range of - 40 to +85°C. Aging rate is a maximum of ±3ppm for the first year.

The clock function tracks tenths/hundredths of seconds, seconds, minutes and hours. The calendar function tracks date, month, year and century, with automatic leap year compensation. Programmable clock-out frequencies, alarm settings and a watchdog function increase flexibility using this device.

Because it is entirely self-contained, the RV-4162-C7 is a simple solution that can save engineering, procurement and inventory costs. External dimensions of the standard ceramic package are extremely small with 3.2x1.5x0.8mm which represents a board space of only 4.8mm². Like all Micro Crystal products, it is RoHS compliant and 100% lead free.

Potential applications are widespread, including: battery powered handheld devices, portable point of sales terminals, GPS, digital still cameras, glucose meters, security systems, appliances, factory automation and programmable logic control and data loggers

See the Micro Crystal RV-4162-C7 RTCs at Electronica Booth 206 in Hall A4 or contact Micro Crystal. The new Real Time Clock is available in production quantities in Q1/2011. Datasheets are available online. For more information, visit: www.microcrystal.com email sales@microcrystal.com

Important Technical Data

<i>Specification</i>	<i>Value</i>	<i>Unit</i>	<i>Comment</i>
Output Frequency	32.768	kHz	
Frequency Tolerance @ 25°C	+/-20	ppm	
Aging first year max.	+/-3	ppm	
Operating Temp. Range	-40 to +85	°C	
Operating Voltage Range	1.3 – 4.4	Vdd	
Operating Voltage (Time Keeping)	1.0 – 4.4	Vdd	
Current Consumption	270	nA	Vdd=1.0V
Package Size	3.2x1.5x0.8	mm	4.8mm ² (Board Size)

DataSheet:

<http://www.microcrystal.com/CMSPages/GetFile.aspx?nodeguid=f132bbb2-7910-4f94-895a-41df20b73478>

About Micro Crystal AG:

Micro Crystal AG, Grenchen, Switzerland develops, manufactures and sells Crystal devices, Oscillators, OCXO and Real Time Clocks for the world wide market of the electronic industry.

Micro Crystal employs about 1000 persons worldwide, with large-volume production in China, Thailand and Switzerland. A network of offices in Europe, Asia, Japan and North America ensures tight relationship to global customers and strong technical support. Micro Crystal AG stands for reliable technology, commitment for quality and environmental friendly production. .

www.microcrystal.com

About Swatch Group Electronic Systems

Micro Crystal is a member of the Swatch Group Electronics Systems (SGES). This group is formed by daughter companies of the Swatch Group active in the electronics field, in order to ensure synergy of development for customer's applications. www.electronicssystemswatchgroup.com

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