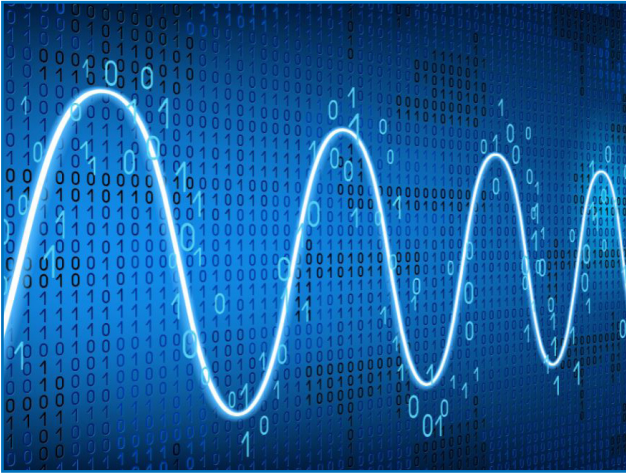# Featured

Complete portfolio of Timing & Frequency Control

The right timing devices for every industry and application
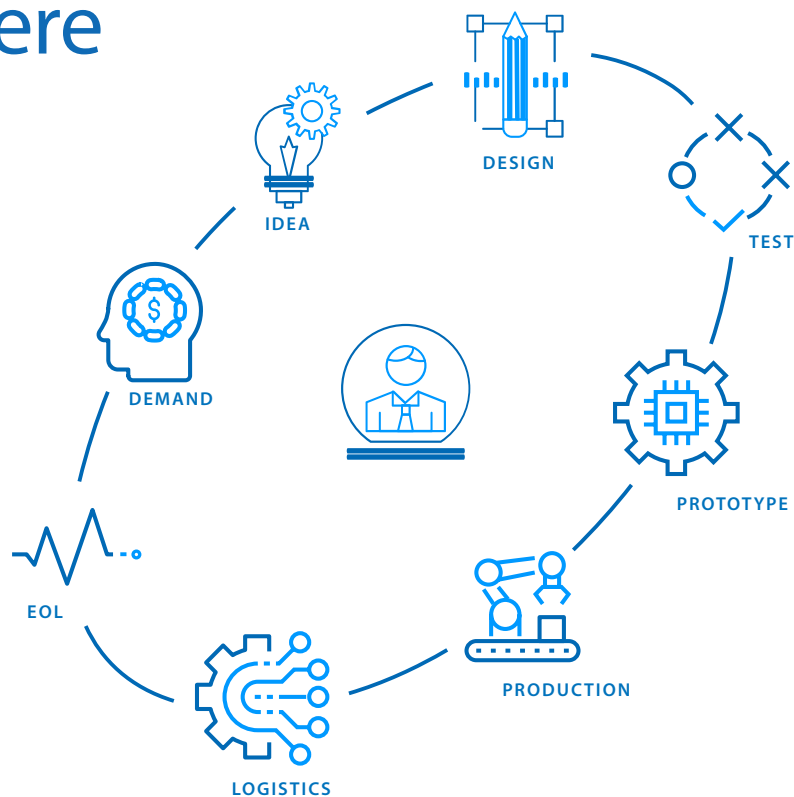
Timing
& Alcom

Alcom offers the perfect solution for any clocking application. Our comprehensive product range contains quartz crystals (MHz / kHz, SMD/THT), crystal and MEMS oscillators (µPower/ultra low power/programmable), Real time clock modules, clock buffers, clock generators, jitter attenuators and network synchronizers, VCXO/TCXO/OCXO, and resonator products. All with the highest quality and reliablity. You are invited to get in touch with your Alcom sales or application engineers for more product updates, current & future roadmap insights, how to get started or any additional technical info.

Co-creation
starts here

IDEA

DESIGN

TEST

DEMAND

PROTOTYPE

EOL

PRODUCTION

LOGISTICS

Alcom considers everybody an indispensable added value in the collaborative chain with all of its partners.

Applications & Markets

MOBILE & IOT

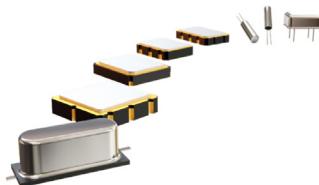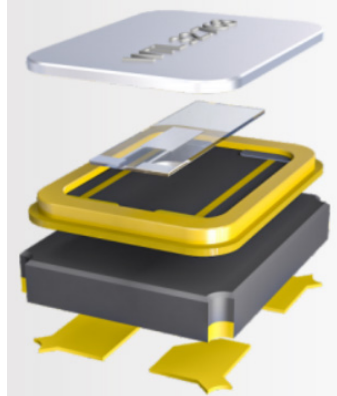**INDUSTRIAL**

CONSUMER

AEROSPACE & DEFENCE

COMMUNICATIONS & ENTERPRISES

AUTOMOTIVE

Featured suppliers

DAPU
Leader in Clock chips, modules and RF components

EPSON
EXCEED YOUR VISION
Crystal units / oscillators / Real-Time clocks

Golledge
Frequency Control Products

SiTime
The siliconization of timing
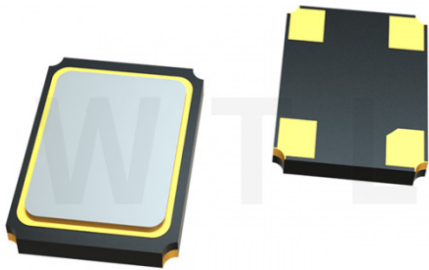
SKYWORKS
Clocks And Timing

WTL
Crystals, oscillators, Programmable oscillators, VCTXO, TCXO, VCXO,OCXO & filters

Product Overview

Quartz Crystals

- Up to 80MHz
- Packages down to 1.0 x 0.8mm (MHz)
- Or 1.6 x 1.0mm (kHz)
- High Stability
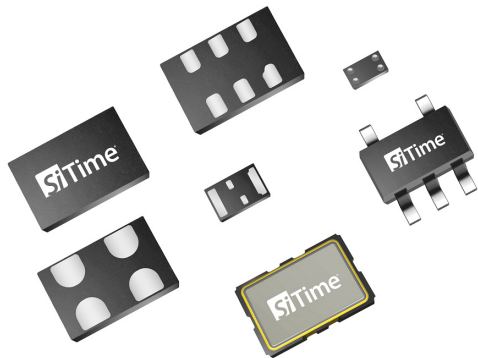- Industrial & Automotive versions

Crystal Oscillators (SPXO)

- Up to 2.2GHz
- Standard package sizes (down to 2.0 x 1.6)
- Any-frequency available (1ppb)
- I2C-programmable XO/VCXO
- High stability (0.5ppm)
- Ultra-Low Jitter (80fs)

MEMS Timing

- Oscillators
- VCXO, TCXO, OCXO
- CMOS, LVCMOS, LVDS, LVPECL, HCSL, CML
- Ultra-high reliability
- Ultra-Low Jitter (80fs)
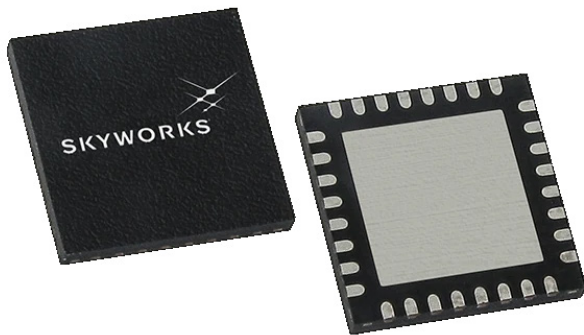- High Stability 0.5ppm

RTC modules

- Crystal and RTC in one package
- Lowest current consumption < 100nA
- High accuracy – temperature compensated (5ppm)
- Standard I2C or SPI interface
- Time Stamps / Alarms
- Power Switch
- Battery Backup

Clock Buffers

- Universal Buffers
- Any Output (level shifter)
- Format Translation
- Multiple outputs (up to 20)
- PCIe up to Gen 5
- Zero-delay buffers

Clock Generators / Jitter Attenuators

- 10-400G
- PCIe Gen1/2/3/4/5
- Multiple outputs (up to 20)
- HCSL driver, built-in termination
- Spread-Spectrum for reduced EMI
- Ultra Low jitter
- Hitless / On-the-Fly Switching
- Communications, Data Center, Industrial, Optics

Network Synchronizers

- IEEE 1588 / SyncE
- 1pps clocks
- PTP
- Multiple clock input / output
- Built-in Crystal

Programmables

- Factory programmed timing solutions
- Alcom Programming services
- Lead times for programming less than 2 weeks
- Pin compatibility for fixed frequency and programmed timing devices
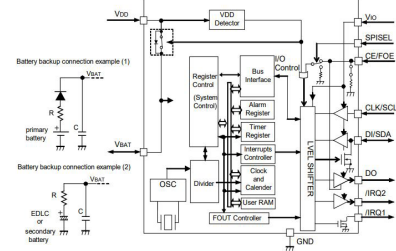
SG-8018 SERIES
PROGRAMMABLE OSCILLATOR

New product releases

WHY USE AN EPSON RTC MODULE TO ASSIST AN MCU?

Did you know that an uncompensated crystal can lose up to 7min/month? Epson compensated RTCs can provide an accuracy of up to 9 seconds per month

LOW POWER PROGRAMMABLE OSCILLATOR 1 TO 110 MHZ

The SiT8008 low-power MEMS oscillator has a new feature that accelerates time to revenue and simplifies inventory management for industrial and medical electronics customers. The SiT8008 can now operate at any voltage between 1.62V and 3.63V. Continuous 1.8 V to 3.3 V supply voltage enables inventory consolidation and qualification of a single device configuration.

RTC MODULES REQUIRE ONLY 100NA BACKUP CURRENT IN A 3.2×2.5MM PACKAGE
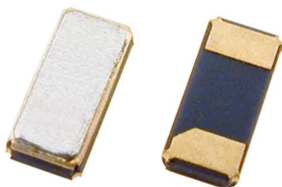
The RX8111CE and RX4111CE Real-Time Clock Modules (with integrated crystal) feature a best-in-class 100nA backup current in a 3.2 x 2.5mm package and are equipped with time-stamping and power-switching functions integrated. The time-stamp function can be used, for example, to record the time of system software updates, battery replacements, and system alerts. Time-stamps are stored even when power is switched over to the alternative battery source, contributing to system robustness.

NEW 32.768KHZ WATCH CRYSTAL

The GSX-317 is a brand new watch crystal and highly recommended due to its competitive pricing and secure supply, making it an ideal 32.768kHz frequency solution during the current marketplace disruption.
We have substantial quantities of the GSX-317 in free stock available for immediate delivery and scheduled production orders can be supported with lead times of just 6-8 weeks. When compared with typical market lead times of 52+ weeks for many watch crystals, this offers substantial welcome security during these turbulent times.

MEMS TIMING SOLUTIONS HELP SOLVING QUARTZ SHORTAGE ISSUES

The current semiconductor market shortage is continuing in 2022 and you must be facing challenging times to deliver your customers. The good news is that we, at Alcom, are able to help your customers. The different services Alcom and its parties offers:
• Solve Quartz shortage issues by offering pin2pin SiTime alternates
• Engagement into "long term supply agreement (LTA)" with guarantee of supply
• Expedite delivery in 6-week lead time of any type of oscillators (subject to fee)

WTL FREQUENCY CONTROL PRODUCTS

WTL offers the latest Xtal technologies at competitive prices. WTL's complete and comprehensive portfolio is worldwide recognized for its high technology and superb quality.

Alcom product portfolio

ELECTRONIC COMPONENT SOLUTIONS	WIRELESS EMBEDDED CONNECTIVITY & SENSORS	WIRELESS & INDUSTRIAL CONTROLS NETWORKING	DISPLAY & TOUCH

LED & SOLID STATE LIGHTING	POWER & EMC	RUGGED MOBILE COMPUTING	EMBEDDED SYSTEMS, AI & EDGE COMPUTING

- Semiconductors
- Frequency & timing
- Power management
- Circuit protection & discretes
- Magnetics
- Passives & electromechanical
- Connectors & cable assemblies
- Photonics

- Wireless modules
- Antenna's
- Sensors

- Routers & gateways
- Wireless embedded computers
- Industrial ethernet and IP variations
- Wired & wireless machine networking
- Antenna's
- Device to cloud solutions
- Connectivity & remote management services
- Networking & connectivity

- Displays
- Touch screens
- Optical bonding
- Total display solutions

- LED light sources
- Optics
- Thermal management
- Power & intelligent controls
- LED modules

- AC/DC power supplies
- DC/DC converters
- Power management modules
- Wireless charging
- E-mobility solutions
- Transformers & power inductors
- UPS
- EMC filters

- Tablets
- PDA's
- Vehicle mount computers
- Accessories

- Computer-on-modules
- Embedded boards
- Industrial PC & automation
- System integration

Bridging the gap between technology, people and business with a human interface.

Alcom
electronics

ALCOM BELGIUM
Alcom electronics nv/sa
Singel 3
2550 Kontich
Tel: +32 (0)3 458 30 33
Fax: +32 (0)3 458 31 26
Email: info@alcom.be
www.alcom.be

ALCOM THE NETHERLANDS
Alcom Electronics B.V.
Rivium 1e straat 52
2909 LE Capelle a/d IJssel
Tel: +31 (0)10 288 25 00
Fax: +31 (0)10 288 25 25
Email: info@alcom.nl
www.alcom.nl

Get to
know us

ALCOM PROVIDES THE WORLD'S MOST AD-VANCED TECHNOLOGIES.

With a team of like-minded entrepreneurs, Alcom will continue to inspire its valued customers to use advanced innovative building blocks in vertical markets. The importance of providing high-level services and a human interface based on specialism, knowledge and design-in expertise will remain key differentiators.

Alcom is positioned for growth. We invite all our customers to discuss their current and future concepts and designs. Let's connect, work and grow together.

JUNE 2022