

RTC 12 Click



PID: MIKROE-4697

RTC 12 Click is a compact add-on board that measures the passage of time. This board features the [DS1343](#), a low-current SPI-configurable real-time clock (RTC) from [Analog Devices](#). This timekeeping device provides an extremely low standby current permitting longer life from a backup supply source. Its clock/calendar feature provides seconds, minutes, hours, day, date, month, and year information. The date at the end of the month is automatically adjusted for months with fewer than 31 days, including corrections for leap year. The clock operates in either 24-hour or 12-hour format with an AM/PM indicator. This Click board™ is suitable for portable applications, industrial and health-related time metering applications, and others requiring an accurate RTC for their operation.

RTC 12 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	RTC
Applications	Can be used for portable applications, industrial and health-related time metering applications, and others requiring an accurate RTC for their operation.
On-board modules	DS1343 - low-current RTC that consumes an extremely low timekeeping current permitting longer life from a backup supply source from Maxim Integrated
Key Features	Low power consumption, low timekeeping current of 250nA, RTC counts seconds, minutes, hours, days, dates, months, and years with year compensation valid through 2099, power-fail and switch circuitry, 96B battery-backed NV RAM, and more.
Interface	SPI
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[RTC 12 click 2D and 3D files](#)

[DS1343 datasheet](#)

[RTC 12 click schematic](#)

[RTC 12 click example on Libstock](#)

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