

Time-saving embedded tools

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EZO Carrier Click - RTD





PID: MIKROE-6012

EZO Carrier Click - RTD is a compact add-on board engineered to provide temperature readings across a broad range of temperatures. This board features the EZO-RTDTM, an embedded temperature circuit board from Atlas Scientific. The EZO-RTDTM is a small black additional board that comes together with the carrier board and allows you to read the temperature values from -126.000°C to +1,254°C with a resolution of 0.001°C. The EZO-RTDTM allows readings in a maximum of one reading per second. This Click boardTM is ideal for high accuracy for precise temperature readings from any class of 2, 3, or 4-wire platinum RTD probes. It is compatible with any class of 2, 3, or 4-wire platinum RTD probes, such as the PT-1000 Class-B platinum RTD temperature probe from Atlas Scientific.

EZO Carrier Click is fully compatible with the mikroBUS^m socket and can be used on any host system supporting the <u>mikroBUS^m</u> standard. It comes with the <u>mikroSDK</u> open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this <u>Click board^m</u> apart is the groundbreaking <u>ClickID</u> feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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).



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Specifications

Туре	Environmental,Measurements
Applications	Can be used for high accuracy for precise temperature readings from any class of 2, 3, or 4-wire platinum RTD probes
On-board modules	EZO-RTD [™] - embedded temperature circuit board from Atlas Scientific
Key Features	High stability and accuracy, easy-to-use data protocol, simple command structure, flexible calibration protocol, works with any class of 2, 3, or 4-wire platinum RTD probes, noise immunity, completely isolated data and power supply lines, and more
Interface	I2C,UART
ClickID	Yes
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

<u>mikroBUS</u>™

<u>mikroSDK</u>

Click board[™] Catalog

Click Boards[™]

Downloads

SI8400 datasheet

EZO Carrier Click - RTD 2D and 3D files

EZO-RTD datasheet

EZO Carrier click schematic

EZO Carrier Click - RTD example on Libstock

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