

VCT Monitor Click



PID: MIKROE-4353

VCT Monitor Click is a compact add-on board that contains a highly integrated monitoring solution without compromising accuracy. This board features the [LTC2990](#), an I2C configurable high-performance temperature, voltage, and current monitor from [Analog Devices](#). The LTC2990 incorporates a 14-bit ADC and a 10ppm/°C voltage reference to provide sub-millivolt voltage resolution, as well as +1°C accuracy internally and +0.5°C accuracy remotely when making temperature measurements. This Click board™ is suitable for applications like supply voltage monitoring and remote diode temperature measurement, e.g., in industrial systems where thermal management is crucial for maximizing performance.

VCT Monitor 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	Current sensor,Measurements
Applications	Can be used for applications like supply voltage monitoring and remote diode temperature measurement, e.g., in industrial systems where thermal management is crucial for maximizing performance.
On-board modules	VCT Monitor Click is based on the LTC2990, a high-performance temperature, voltage, and current monitor with the I2C serial interface from Analog Devices.
Key Features	Low power consumption, high precision
Interface	I2C
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

[VCT Monitor click 2D and 3D files](#)

[VCT Monitor click example on Libstock](#)

[VCT Monitor click schematic](#)

[LTC2990 datasheet](#)

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