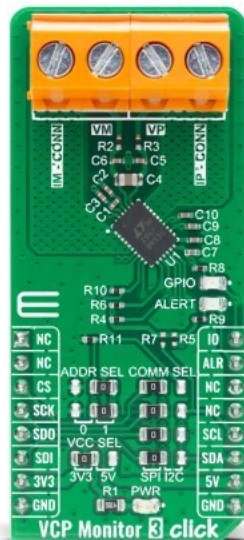


VCP Monitor 3 Click



PID: MIKROE-4222

VCP Monitor 3 Click is a high precision Voltage, Current and Power measurement Click board™ with an input capable of taking up to 15V. It features the [LTC2947](#), from [Analog Devices](#), a high precision power and energy monitor with an internal sense resistor supporting up to $\pm 30A$. Three internal no latency delta-sigma ADCs ensure accurate measurement of voltage and current, with up to 0.5% voltage and 1% current accuracy while high-bandwidth analog multiplication provides precise power measurement in a wide range of applications. An internal $300\mu\Omega$, temperature-compensated sense resistor minimizes efficiency loss while enabling high accuracy current measurement over the full temperature range. All measured values are stored in internal registers accessible via the selectable I2C or SPI interface. All these features make VCP Monitor 3 Click ideal for using in applications such as industrial measurements, electric vehicles, photovoltaic systems, telecom infrastructure, servers, and more.

VCP Monitor 3 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	Measurements
Applications	Can be used in applications including Servers, Telecom Infrastructure, Industrial, Electric Vehicles, Photovoltaics and more.
On-board modules	LTC2947 - a high precision power and energy monitor with an internal sense resistor, from Analog Devices
Key Features	Measures Current with $\pm 30A$ range, Voltage with 0V to 15V input range, Power, Charge, Energy. Provides 0.5% Voltage Accuracy, 1% Current and Charge Accuracy, 1.2% Power and Energy Accuracy, Alerts When Thresholds Exceeded.
Interface	GPIO,I2C,SPI
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click boards™](#)

Downloads

[LTC2947 datasheet](#)
[VCP Monitor 3 click schematic](#)
[VCP Monitor 3 click 2D and 3D files](#)
[VCP Monitor 3 click example on Libstock](#)

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).