MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
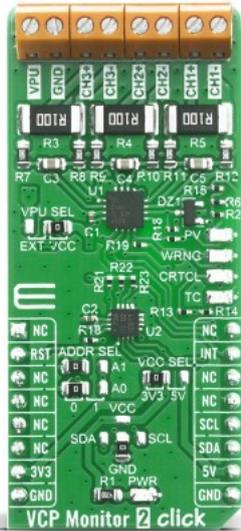Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
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VCP Monitor 2 Click

PID: MIKROE-4126

VCP Monitor 2 Click is a three-channel, high-side current and bus voltage monitor with alert indication function ensuring the intended application works within desired operating conditions. Featured chip INA3221-Q1, by Texas Instruments, monitors both shunt voltage drops and bus supply voltages, in addition to having programmable conversion times and averaging modes for these signals. The INA3221-Q1 offers both critical and warning alerts to detect multiple programmable out-of-range conditions for each channel. The INA3221-Q1 senses current on buses that can vary from 0V to 26V. The device is powered from a single 2.7V to 5.5V supply, and draws 350 μA (typical) of supply current. The I2C and SMBUS-compatible interface features four programmable addresses.

VCP Monitor 2 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.

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Specifications

Type	Measurements
Applications	Electronic control units, digital clusters, rear-seat entertainment, infotainment, computers, power management, telecom equipment, battery chargers, power supplies, test equipment.
On-board modules	VCP Monitor 2 Click uses the INA3221-Q1, a three-channel, high-side current and bus voltage monitor, from Texas Instruments and PCA9538A, an IO expander with interrupt and reset, from NXP Semiconductors.
Key Features	Shunt voltage drops and bus supply voltages monitoring, programmable conversion times, critical and warning alerts, single power supply, 350 µA of supply current
Interface	I2C
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

VCP monitor 2 Click schematic

VCP monitor 2 click 2D and 3D files

INA3221-Q1 datasheet

VCP monitor 2 click example on Libstock

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