

HW Monitor Click



PID: MIKROE-5684

HW Monitor Click is a compact add-on board used to monitor and regulate the performance of various hardware components within an embedded system. This board features the [LM96080](#), an I2C-configurable system hardware monitor from [Texas Instruments](#) that contains a 10-bit delta-sigma ADC capable of measuring seven positive voltages and local temperature. The LM96080 also has two programmable fan speed monitoring inputs besides other hardware monitoring functions like chassis intrusion detection, additional external interrupt input, master reset for external purposes, as well as a sequencer that performs watchdog window comparisons of all measured values. This Click board™ is suitable for system thermal and hardware monitoring for various servers, electronic test equipment and instrumentation, communications infrastructure, consumer electronics, and more.

HW 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	ADC
Applications	Can be used for system thermal and hardware monitoring for various servers, electronic test equipment and instrumentation, communications infrastructure, consumer electronics, and more
On-board modules	LM96080 - system hardware monitor from Texas Instruments
Key Features	Seven positive voltage inputs with 10-bit resolution, local temperature sensing, two programmable fan speed monitoring inputs, chassis intrusion detection, watchdog comparison of all monitored values, power switch bypass, external interrupt and master reset, and more
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

[HW Monitor click example on Libstock](#)

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

[LM96080 datasheet](#)

[HW Monitor click schematic](#)

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).