![MIKROE - Time-saving embedded tools]

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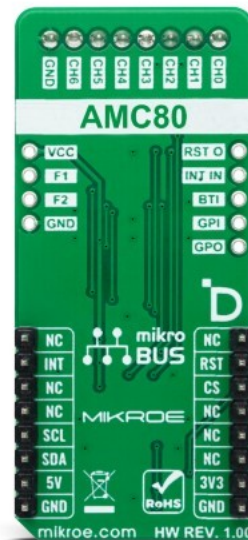
HW Monitor 2 Click

PID: MIKROE-5685

HW Monitor 2 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 AMC80, an I2C-configurable system hardware monitor from Texas Instruments that contains a 10-bit ADC capable of measuring seven positive voltages and local temperature. The AMC80 also has two programmable fan speed monitoring inputs besides other hardware monitoring functions like chassis intrusion detection, additional external interrupt input, and master reset for external purposes, as well as a programmable upper over-limit and lower under-limit alarms that activate when the programmed limits are exceeded. 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 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	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	AMC80 - system hardware monitor from Texas Instruments
Key Features	Seven input channels with 10-bit resolution, local temperature sensing, two programmable fan speed monitoring inputs, chassis intrusion detection, 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 2 click example on Libstock

HW Monitor 2 click 2D and 3D files

HW Monitor 2 click schematic

AMC80 datasheet