

SysMon lite

Raspberry-based System Monitor



Description

The SysMon lite is a smart, and highly cost-efficient system monitoring unit. It allows users to monitor the internal parameters of a system platform such as voltages, currents and temperatures. Remote maintenance is just an option as adjusting performance settings. The monitored parameters of the system platform are measured or read in and analysed at regular intervals.

The SysMon lite can help you to take a system platform to the very edge of its capabilities. Users are free to use or even write the monitoring software of their choice. The Linux Raspbian OS provides the required flexibility but can also be replaced by Android or Windows 10.

Features

- Raspberry Pi Compute Module
- ARM11 Processor
- 700 MHz clocking frequency
- 512 MB RAM
- 4 GB eMMC Flash
- Based on Linux OS Raspbian (Android and Windows 10 optional)



Benefits

- Allows remote maintenance
- Enabled change of settings when required
- Extraordinarily cost-efficient
- Free choice of monitoring software

Applications

The SysMon Lite is suitable for all cost-sensitive applications where flexibility, remote maintenance and changeable power settings are required. This includes industries like scientific research, industrial automation or test & measurement

SysMon lite

Raspberry-based System Monitor

Specifications

Raspberry Pi Compute Module	ARM11 CPU: 700 MHz clock frequency, 512 MB RAM, 4 GB eMMC Flash, Linux OS (Raspbian)
Front I/O interfaces	HDMI (1x mini HDMI) Ethernet (1x) USB (3x) 2x buttons (1x GPIO Port, 1x Hardware-Reset) 8x LEDs (activated via GPIO) 4x LED green 4x LED yellow
I/O connections	I2C (I2C-0, I2C-1) 3.3 V o I/Os (6x In / 8x Out, Out: 6x 5 V TTL 2x Open Collector; In: 6x 5 V TTL) o I/Os for voltage monitoring / Reset / SysFail o Connector for 3x analogue temperature sensors and I2C temperature sensors o Power Input (5 V)
Rear I/O interfaces (pluggable version / compatible with Sysmon 3rd Gen)	I2C (I2C-0, I2C-1) 3.3 V I/Os (6x In / 8x Out) Out: 6x 5 V TTL 2x Open Collector In: 6x 5 V TTL I/O for voltage monitoring / Reset / SysFail I/O for 3x analogue temperature sensors and I2C temperature sensors 8x DIP switch Power Input (5 V)
Board interfaces (fix mounted version)	I2C (2x) I/Os (6x In / 8x Out) (see Rear I/O interfaces) I/O for voltage monitoring / Reset / SysFail Connectors for 3x analogue temperature sensors 8x DIP switch (on GPIO) Power Input (5 V oder 12 V) Serial interface (serial – USB) via FTDI chip Micro-USB programming interface