CHILISOM

ChiliSOM is an ultra-small, extremely low-power, state-of-art module based on ARM Cortex-A8 processor. Modular design makes it easy to embed to your device without any connector. By placing the most critical signals in the module, even very complex peripherals can be placed using two PCB layers. This allows a significant reduction in production costs. ChiliSOM is ideally suitable for applications requiring high degree of density and high computational power at extremely low power consumption. The module is designed to operate with all major OS. It is preconfigured for Linux, Android and Windows Embedded. With a rich set of peripherals the module is designed to cater for a wide range of applications.

TECHNICAL DATA

Processor	AM335X - TI ARM Cortex-A8 1GHz, with NEON, SIMD Coprocessor
RAM	up to 256MB DDR2/DDR3 SDRAM
ROM	up to 256MB NAND Flash
Power supply	Single 5V, Integrated with Li-ion and Li-Po batteries
Size	40mm x 40mm x 3mm

Temperature range	0ᵒC to 70ᵒC or -40ᵒC to 85ᵒC
OS support	Windows Embedded, Linux, Android
Real-Time Clock (RTC)	Real-Time Clock (RTC)
Number of pads	184
Graphics	PowerVR SGX530 Graphics Engine, LCD controller
Interfaces	2x 10/100/1000 Ethernet 2x USB2.0 High-Speed OTG with PHY, 2x CAN, 6x UART, 2x McASP, 2x SPI, 3x I2C
12-Bit (SAR) ADC	87,5mm x 90,0mm x 65,0mm (5 modułów DIN)