

The all-metal fitlet-RM is the smallest PC for extreme conditions

Yokneam, Israel 28-Jun-2016 – Compulab is introducing fitlet-RM – a ruggedized miniature fanless PC in an all-metal housing. fitlet-RM provides excellent durability at extreme temperatures and conditions of shock, vibration and dust.

In many independent benchmarks fitlet-RM achieves higher scores than PCs based on Intel® Atom™. It effectively doubles the performance of the original fitlet-i by incorporating the quad-core AMD A10 Micro-6700T APU in an all-metal housing designed to maximize heat-dissipation in the smallest possible footprint.

fitlet-RM is built to last

The miniature 0.22 liter housing of fitlet-RM is all metal with interlocking parts for structural strength. fitlet-RM has no moving parts thanks to passive cooling and SSD storage. The embedded-grade motherboard and passive-cooling allow fitlet-RM to operate at an unusually wide temperature range of -40°C to 70°C. Ventless design and no internal airflow make fitlet-RM an extremely reliable computer in dusty, corrosive or humid environments. These properties also make fitlet-RM an excellent choice for sterilized rooms. fitlet-RM comes with a 5 year warranty.

fitlet-RM is tiny, versatile and scalable

“Miniature PCs too often compromise on functionality, modularity and serviceability.” Said Irad Stavi, Chief Product Officer at Compulab. “fitlet-RM stands out with extremely rich functionality that can be further extended by custom FACET card modules. fitlet-RM is surprisingly easy to open for RAM, storage and extension-cards installation.”

fitlet-RM offers high scalability from deeply embedded applications integrating just the miniature single-board-computer SBC-FLT up to the more powerful fitlet-H and fitlet-T that share the same architecture of fitlet-RM and provide more performance, memory and storage capacity.

Better system integration with ready mounting, power handling and cable locking

fitlet-RM addresses real-world system integration challenges to improve overall solution quality and reduce design cost and time to market. Both Windows and Linux are supported on fitlet-RM. It has both VESA and DIN-rail mounting, power and USB locking, power button disable and remote power button, RS232, SMBUS and GPIOs. Small size, passive cooling and tolerance for a wide temperature range simplify integration. fitlet-RM is 10V-15V tolerant and can be easily integrated in automotive. fitlet-RM is available as a turn-key OEM product with build-to-order, branding and SW imaging service.

fitlet-RM specifications

CPU: AMD A10 Micro-6700T 64 bit / quad-core / up to 2.2 GHz

Graphics: AMD Radeon™ R6 Graphics

Display: Dual HDMI 1.4a

RAM: Up to 8 GB DDR3-1333 (1x SODIMM)

Storage:

- mSATA up to 1 TB – SATA 3.0 6 Gbps
- Micro-SD – SDXC support, rate 25 MB/s

Networking:

- Up to 4 Gbit Ethernet ports (Intel I211) in fitlet-RM-XA10 LAN
- WLAN 802.11ac (2.4/5GHz dual band Intel 7260HMW) + BT4.0 in fitlet-RM-iA10
- Support for mobile data communication with on-board micro-SIM socket in fitlet-RM-iA10

USB: 2x USB 3.0 + 3x USB 2.0

Audio: S/PDIF 7.1+2 channels in/out + stereo line-out/line-in/mic + HDMI audio

Connectivity: RS232, UART (3.3V), SMBUS, 8x GPIOs

Supported operating systems: Windows 7/10, Linux Mint

Dimensions: 10.8 cm x 8.3 cm x 2.4 cm (0.22l)

Expansion: miniPCIe in fitlet-RM-iA10 (normally used for WLAN)