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CompuLab introduces CL-SOM-AM57x – a high-performance ARM Cortex-A15 System-on-Module with rich connectivity and networking capabilities

Yokneam, Israel - 18-October-2015 – CompuLab is introducing CL-SOM-AM57x – a miniature ARM Cortex-A15 System-on-Module designed as a building block for integration into embedded applications. CL-SOM-AM57x is built around the Texas Instruments Sitara AM57x System-on-Chip family. The SoC is supplemented with up-to 4GB DDR3 and 32GB of on-board SLC NAND or eMMC storage.

Featuring an unprecedented set of dedicated graphics acceleration and video processing engines, CL-SOM-AM57x delivers high-performance multimedia and image processing capabilities. Dual C66x DSP cores and dedicated ARM Cortex-M4 IPUs make CL-SOM-AM57x a powerful platform for image and video processing systems, while dual PowerVR SGX544 GPU and IVA-HD video sub-system enable multimedia demanding applications.

Offering a wide range of embedded interfaces and a PRU-ICSS coprocessor dedicated for real-time processing and industrial protocols, CL-SOM-AM57x is an ideal selection for industrial automation and control systems. Dual Gbit Ethernet, 802.11a/b/g/n WiFi and Bluetooth 4.1 make CL-SOM-AM57x an excellent solution for networking, communications and IoT applications.

CompuLab supports CL-SOM-AM57x with a highly versatile SB-SOM-AM57x carrier-board which has been designed for CL-SOM-AM57x evaluation, application development as well as for deployment as a SBC-AM57x industrial single-board computer.

CL-SOM-AM57x is provided with comprehensive documentation and ready-to-run SW packages for the Linux operating system.

CL-SOM-AM57x Specifications

CPU	Texas Instruments Sitara AM5728 / AM5718 SoC, 1.5GHz
GPU	2x PowerVR SGX544 3D GPU cores
DSP	2x TMS320C66x DSP cores
Video	IVA-HD 1080p video sub-system
RAM	Up to 4GB DDR3
Storage	Up to 32GB on-board eMMC Up-to 1GB on-board SLC NAND
Display	Parallel RGB, 24-bit, up to 1920 x 1200 HDMI 1.4a, up to 1920 x 1200 LVDS, up to 1920 x 1080
Touchscreen	4-wire resistive touch-screen controller
Audio	Audio codec with stereo line-out, line-in, mic
Network	2x Gigabit Ethernet WiFi 802.11a/b/g/n + Bluetooth® 4.1 BLE
PCIe	2x PCIe x1 Gen. 2
SATA	SATA-II, 3Gbps
USB	USB3.0 dual-role + 3x USB2.0 host
UART	Up to 9 UART ports
SDIO	Up to 3 MMC/SD/SDIO interfaces
General I/O	Up to 2x I2C, 4x SPI, 2x CAN, 87x GPIO
Power	4.2V to 5V
Connector	204-pin SO-DIMM edge connector
Dimensions	60 x 68 x 5 mm

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Availability and Pricing

CL-SOM-AM57x will be available in December 2015 through CompuLab's worldwide distribution channel and through direct sales (www.compulab.co.il).
Detailed ordering and pricing information is available at the CL-SOM-AM57x product page.

About CompuLab

CompuLab is a leading designer and manufacturer of embedded computing products since 1992.
CompuLab products are embedded in digital signage, telecommunication systems, automotive devices, gaming systems, medical devices, aerospace and marine systems, and countless other applications.
CompuLab headquarters are located in Yokneam, Israel with offices in St. Petersburg, FL.

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NOTE TO EDITORS: For additional info and high-res product images please refer to the CL-SOM-AM57x press kit or visit www.compulab.co.il.