

14-June-2015

## CompuLab introduces a range of Intel and AMD based COM Express modules

Yokneam, Israel - 14-June-2015 – CompuLab is introducing three COM Express Computer-on-Modules, featuring a range of Intel® Core™, Intel® Atom™ and AMD CPUs:

- COMEX-IC50L: 5<sup>th</sup> Generation Intel® Core™ (Broadwell) ULT, COM Express Compact Type-6
- COMEX-IE38: Intel® BayTrail Atom™ E3800 and Celeron®, COM Express Mini Type-10
- COMEX-A420: AMD Embedded G-Series and E-Series, COM Express Mini Type-10

CompuLab has been pioneering the embedded market with highly integrated, power efficient x86 Computer-on-Modules and industrial computers for over 15 years. Leveraging that expertise, CompuLab is now offering the new line of versatile and optimized COM Express modules spanning across a wide range of low-cost to high-performance x86 SoCs.

The COMEX product line is fully compliant with the COM Express standard and has been designed for seamless integration into COM Express system designs. All COMEX products support operation in wide temperature range.

### COMEX-IC50L

COMEX-IC50L is built around the 5<sup>th</sup> Generation Intel Core (Broadwell) ULT processor family, featuring a highly scalable and power efficient CPU coupled with the powerful Intel HD Graphics engine. Delivering high performance in a miniature form-factor and low-power envelope, COMEX-IC50L is an ideal choice for power demanding, yet space-constrained systems. Featuring a wide range of industry standard interfaces, COMEX-IC50L is an excellent platform for networking, industrial automation, communications and IoT applications. High-performance Intel HD Graphics GPU and support for triple display operation make COMEX-IC50L a powerful solution for multimedia applications such as digital signage, point of sale and surveillance.

### COMEX-IC50L Specifications

<b>CPU</b>	Intel Core i7-5650U dual-core 2.2GHz, 15W TDP Intel Core i5-5350U dual-core 1.8GHz, 15W TDP Intel Core i3-5010U dual-core 2.1GHz, 15W TDP
<b>Chipset</b>	Integrated in SoC
<b>RAM</b>	Up to 16GB DDR3L-1600, 2x SO-DIMM 204-pin
<b>Storage</b>	Up to 4x SATA 6Gb/s
<b>Display</b>	Intel HD Graphics 5500 / 6000 2x DDI: HDMI / DVI / DP / DP++, up-to 3200 x 2000 eDP v1.3 up to 3200 x 2000 / dual-channel LVDS, up-to 1920 x 1200
<b>Network</b>	Gigabit Ethernet, Intel I218 GbE PHY
<b>Audio</b>	HD Audio Interface
<b>PCI Express</b>	Up-to 6x PCI Express x1 ports
<b>USB</b>	Up-to 4x USB3.0, 8x USB2.0
<b>General I/O</b>	2x UARTs, LPC, I2C, SMBus, fan control, 8x GPIOs
<b>Supply Voltage</b>	Single 12V DC
<b>Form factor</b>	COM Express compact (95 x 95 mm), pin-out Type-6

## COMEX-IE38

COMEX-IE38 is based on the Intel Atom E3800 and Celeron (Bay Trail) processor family featuring a highly scalable single/dual/quad core CPU coupled with the powerful Intel Gen 7 graphics engine. The CPU is supplemented with up-to 8GB of on-board DDR3 and 64GB of high-speed on-board SSD storage.

Small size and low power consumption allow to integrate COMEX-IE38 into portable and miniature designs, while its low price makes it an ideal selection for cost-sensitive systems.

### COMEX-IE38 Specifications

<b>CPU</b>	Intel Atom Bay Trail E3845 quad-core 1.91GHz, 10W TDP Intel Celeron Bay Trail J1900 quad-core 2GHz, 10W TDP Intel Celeron Bay Trail N2807 dual-core 1.58GHz, 4.3W TDP Intel Atom Bay Trail E3815 single-core 1.46GHz, 5W TDP
<b>Chipset</b>	Integrated in SoC
<b>RAM</b>	Up to 8GB DDR3L-1333 (soldered on-board)
<b>Storage</b>	Up to 2x SATA 3Gb/s On-board SATA SSD, 8GB - 64GB, MLC
<b>Display</b>	Intel HD Graphics Gen 7 DDI: HDMI / DVI / DP / DP++, up-to 2560 x 1600 eDP v1.3 up to 2560 x 1600 / single-channel LVDS
<b>Network</b>	Gigabit Ethernet, Intel I211 GbE PHY
<b>Audio</b>	HD Audio Interface
<b>PCI Express</b>	Up-to 4x PCI Express x1 ports
<b>USB</b>	1x USB3.0, 6x USB2.0
<b>General I/O</b>	UART, SDIO, LPC, I2C, SMBus, fan control, 8x GPIOs
<b>Supply Voltage</b>	4.7V – 20V
<b>Form factor</b>	COM Express mini (84 x 55 mm), pin-out Type-10

## COMEX-A420

COMEX-A420 is built around the AMD Embedded G-Series processor family featuring a scalable dual/quad core CPU with a powerful AMD Radeon GPU. COMEX-A420 features an SODIMM socket supporting up-to 8GB DDR3. Low cost and superior graphics capabilities make COMEX-A420 an excellent solution for multimedia demanding applications.

### COMEX-A420 Specifications

<b>CPU</b>	AMD G-Series GX-412HC quad-core 1.2GHz, 7W TDP AMD E1 Micro 6200T dual-core 1GHz, 3.95W TDP
<b>Chipset</b>	Integrated in SoC
<b>RAM</b>	Up to 8GB DDR3L-1600, SO-DIMM 204-pin
<b>Storage</b>	2x SATA 6Gb/s
<b>Display</b>	AMD Radeon HD8000 / Radeon R2 Graphics DDI: HDMI, DVI, DP, up-to 2560 x 1600 eDP v1.3, up-to 2560 x 1600
<b>Network</b>	Gigabit Ethernet, Intel I211 GbE PHY
<b>Audio</b>	HD Audio Interface
<b>PCI Express</b>	4x PCI Express x1 ports
<b>USB</b>	2x USB3.0, 8x USB2.0
<b>General I/O</b>	UART, LPC, I2C, SMBus, fan control, 8x GPIOs
<b>Supply Voltage</b>	4.7V – 20V
<b>Form factor</b>	COM Express mini (84 x 55 mm), pin-out Type-10



## Design Support

CompuLab supports the COMEX product line with highly versatile SB-COMEX and SB-COMEXmini carrier-boards which have been designed to allow users full and easy access to all functions present on COM Express Type-6 and Type-10 modules. Combining extensive and highly configurable set of interfaces with rich debug functionality, SB-COMEX carrier-boards allow all around evaluation and SW development with COM Express modules.

CompuLab COMEX products are provided with comprehensive documentation and full support for Linux and MS Windows operating systems.

## Availability and Pricing

COMEX-IC50L, COMEX-IE38 and COMEX-A420 will be available in June 2015 through CompuLab's worldwide distribution channel and through direct sales ([www.compulab.co.il](http://www.compulab.co.il)).

Detailed ordering and pricing information is available at:

[www.compulab.co.il/products/com-express/comex-ic50l/](http://www.compulab.co.il/products/com-express/comex-ic50l/)

[www.compulab.co.il/products/com-express/comex-ie38/](http://www.compulab.co.il/products/com-express/comex-ie38/)

[www.compulab.co.il/products/com-express/comex-a420/](http://www.compulab.co.il/products/com-express/comex-a420/)

## 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 [COMEX press kit](#) or visit [www.compulab.co.il](http://www.compulab.co.il).