

## CompuLab's IOT-GATE-iMX7 is a low-cost i.MX7 IoT Gateway for industrial applications

Yokneam, Israel – 27-February-2017 – CompuLab is introducing IOT-GATE-iMX7 – a miniature, cost effective IoT Gateway and Industrial Controller, delivering an unprecedented array of wireless and wired interfaces. Designed into a miniature aluminum housing and measuring just 10.8 x 8.3 x 2.4 cm, IOT-GATE-iMX7 is built around CompuLab's [CL-SOM-iMX7 System-on-Module](#).

Featuring dual Gbit Ethernet, 3G/LTE modem, WiFi 802.11a/b/g/n, Bluetooth 4.1 and ZigBee, IOT-GATE-iMX7 is an excellent solution for networking, communications and IoT applications. An assortment of RS485, RS232 and USB interfaces, makes IOT-GATE-iMX7 a versatile platform for industrial automation and control systems. UART, SPI, I2C and GPIO signals available on a dedicated header allow to utilize the i.MX7 built-in Cortex-M4 MCU for applications that require real-time I/O operation.

Fanless industrial design, rugged housing and support for wide temperature range of -40C to 85C make IOT-GATE-iMX7 an ideal choice for industrial installations and harsh environments. In addition to wide range DC input of 8V to 24V, IOT-GATE-iMX7 supports PoE powered mode allowing to eliminate the need for PSU and simplify cabling.

Modular design of IOT-GATE-iMX provides a unique advantage for projects that require custom form-factor or functionality with fast time-to-market. Leveraging IOT-GATE-iMX7 for quick proof-of-concept and prototyping, customers are able to make a seamless transition to a fully custom design with [CL-SOM-iMX7 System-on-Module](#) while benefiting from proven hardware and existing software stack.

CompuLab is also offering IOT-GATE-iMX7 without the enclosure - as [SBC-IOT-iMX7](#).

Similar to other CompuLab products, IOT-GATE-iMX7 is offered with guaranteed 10-year availability.

### Software Support

IOT-GATE-iMX7 is provided with ready-to-run Debian Linux and full Linux Board Support Package. The IOT-GATE-iMX7 BSP includes Linux kernel 4.1.15, Yocto Project file-system and U-Boot boot-loader. In addition, CompuLab will support IOT-GATE-iMX7 with mainline Linux, upstream Yocto Project and FreeRTOS BSP.

## Specifications

<b>CPU</b>	NXP i.MX 7Dual ARM Cortex-A7 SoC, 1GHz
<b>Co-processor</b>	ARM Cortex-M4, 200Mhz
<b>RAM</b>	Up to 2GB DDR3L-1066
<b>Storage</b>	Up to 32GB on-board eMMC Micro-SD socket
<b>Network</b>	2x Gbit Ethernet Dual-band WiFi 802.11a/b/g/n Bluetooth 4.1 BLE 3G cellular module (via mini-PCie socket) ZigBee NXP JN5168 module
<b>Display</b>	DVI, up to 1920x1080, HDMI connector
<b>Audio</b>	Analog audio - stereo line-out, stereo line-in, 3.5mm jacks
<b>PCI Express</b>	mini-PCie socket, full-size
<b>USB</b>	4x USB2.0 host, type-A connectors
<b>Serial</b>	1x RS485 / RS422 port, RJ11 connector 1x RS232 port, ultra-mini serial connector 1x serial console via UART-to-USB bridge, micro-USB connector
<b>General I/O</b>	Up to 1x UART, 1x SPI, 1x I2C, 12x GPIO, embedded I/O header
<b>Power</b>	Unregulated 8V to 24V Support for PoE (powered device)
<b>Dimensions</b>	108 x 83 x 24 mm
<b>Enclosure</b>	Aluminum housing
<b>Cooling</b>	Passive cooling, fanless design
<b>Temp. range</b>	-40C to 85°C

## Availability and Pricing

IOT-GATE-iMX7 and SBC-IOT-iMX7 are available now through CompuLab's worldwide distribution channel and through direct sales ([www.compulab.co.il](http://www.compulab.co.il)).

IOT-GATE-iMX7 is offered at a variety of configurations starting from \$107 for volume orders.

SBC-IOT-iMX7 is offered at a variety of configurations starting from \$85 for volume orders.

Detailed ordering and pricing information is available at [IOT-GATE-iMX7](#) and [SBC-IOT-iMX7](#) product pages.

## 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 [IOT-GATE-iMX7 press kit](#) or visit [www.compulab.co.il](http://www.compulab.co.il).