

## CompuLab introduces a Raspberry Pi based IoT computer with 3G/LTE modem, dual Ethernet and wide temperature range

Yokneam, Israel 28-November-2017 – CompuLab introduces IOT-GATE-RPi – a miniature, low cost industrial IoT computer, built around the Raspberry Pi 3 Compute Module.

Targeting IoT connectivity and control applications, IOT-GATE-RPi features a variety of wireless and wired interfaces. All-metal, rugged housing and support for wide temperature range of -40C to 80C make IOT-GATE-RPi a versatile solution for installation in harsh environments. IOT-GATE-RPi has been designed for full compatibility with Raspberry Pi software and runs standard Raspberry Pi OS images.

Thanks to its rich software eco-system, Raspberry Pi is widely used by IoT system designers for software development and quick proof-of-concept. IOT-GATE-RPi turns Raspberry Pi into an industrial-grade IoT computer, allowing fast and seamless transition from a Raspberry Pi proto-type to mass-production deployment.

### Designed for IoT applications

IOT-GATE-RPi expands standard Raspberry Pi functionality with additional features necessary for typical industrial IoT systems:

- Built-in 3G/LTE cellular modem with on-board SIM socket
- Dual Ethernet ports
- Up-to 64GB of on-board, soldered eMMC storage
- RTC with battery back-up
- RS485 and CAN bus interfaces

IOT-GATE-RPi functionality can be further extended with Raspberry Pi HAT expansion boards.

### Customizable I/O with Raspberry Pi HATs

Each IoT project presents different connectivity requirements. IOT-GATE-RPi addresses that by implementing application-specific I/O with integrated Raspberry Pi HAT add-ons. On-board 40-pin Raspberry Pi HAT expansion connector and modular I/O side-panel allow easy incorporation of HAT add-ons into the device.

Off-the-shelf 3rd party HATs can be used to add functionality to IOT-GATE-RPi. In addition, CompuLab will support customers with custom HAT design service.

All IOT-GATE-RPi functional modules are easily accessible through the removable bottom cover.

### Optimized for deployment in industrial environments

IOT-GATE-RPi is specifically designed to address integration requirements of industrial IoT systems:

- Operation in wide temperature range of -40C to 80C
- Shock, vibration, dust and humidity resistance
- Wide input voltage range of 10V to 36V
- DC-plug locking prevents unintentional pull-out
- Support for DIN-rail and wall / VESA mounting
- Hardware protection against unauthorized boot from external storage

### Fully compatible with Raspberry Pi software

IOT-GATE-RPi runs standard Raspberry Pi 3 OS images and is fully compatible with all Raspberry Pi software. Supported operating systems include Debian Linux, Ubuntu Core and Windows 10 IoT Core.

In addition, IOT-GATE-RPi supports popular IoT frameworks such as Microsoft Azure IoT and AWS Greengrass.

## Specifications

<b>CPU</b>	Broadcom BCM2837, quad-core Cortex-A53 1.2GHz
<b>GPU</b>	Broadcom VideoCore IV
<b>RAM</b>	1GB LPDDR2
<b>Storage</b>	Up to 64GB of soldered eMMC Micro-SD socket
<b>Network</b>	2x 100Mbps Ethernet 3G / LTE cellular modem (mini-PCie module) WiFi 802.11b/g/n Bluetooth 4.1 BLE
<b>Display</b>	HDMI 1.3, up to 1920×1080
<b>Audio</b>	Analog audio – stereo line-out
<b>USB</b>	4x USB2.0 host, type-A connectors
<b>Serial</b>	1x RS232 port, ultra-mini serial connector 1x RS485, RJ11 connector (with EB-RPI-FCSD HAT board)
<b>CAN</b>	1x CAN bus, RJ11 connector (with EB-RPI-FCSD HAT board)
<b>Expansion</b>	RPI HAT expansion interface
<b>RTC</b>	Real time clock with back-up battery
<b>Input voltage</b>	Unregulated 10V to 36V DC input
<b>Dimensions</b>	112 x 84 x 25 mm
<b>Enclosure</b>	Aluminum housing
<b>Cooling</b>	Passive, fanless cooling
<b>Temp. range</b>	-40C to 80°C

## Price and Availability

IOT-GATE-RPi will be available in December 2017 through CompuLab's worldwide distribution channel and through direct sales ([www.compulab.com](http://www.compulab.com)).

IOT-GATE-RPi will be offered at a variety of configurations starting from \$110 for volume orders.

## About CompuLab

CompuLab is a leading designer and manufacturer of embedded computing products since 1992.

CompuLab products are used in digital signage, telecommunication, industrial automation, gaming, medical devices, aerospace and marine systems and countless other applications.

CompuLab headquarters are located in Yokneam, Israel with offices in St. Petersburg, FL.

## For more details please contact:

Igor Vaisbein

[igor.vaisbein@compulab.co.il](mailto:igor.vaisbein@compulab.co.il)

+972-4-8290100

NOTE TO EDITORS: For additional info and high-res product images please refer to the [IOT-GATE-RPi press kit](#) or visit [www.compulab.com](http://www.compulab.com).