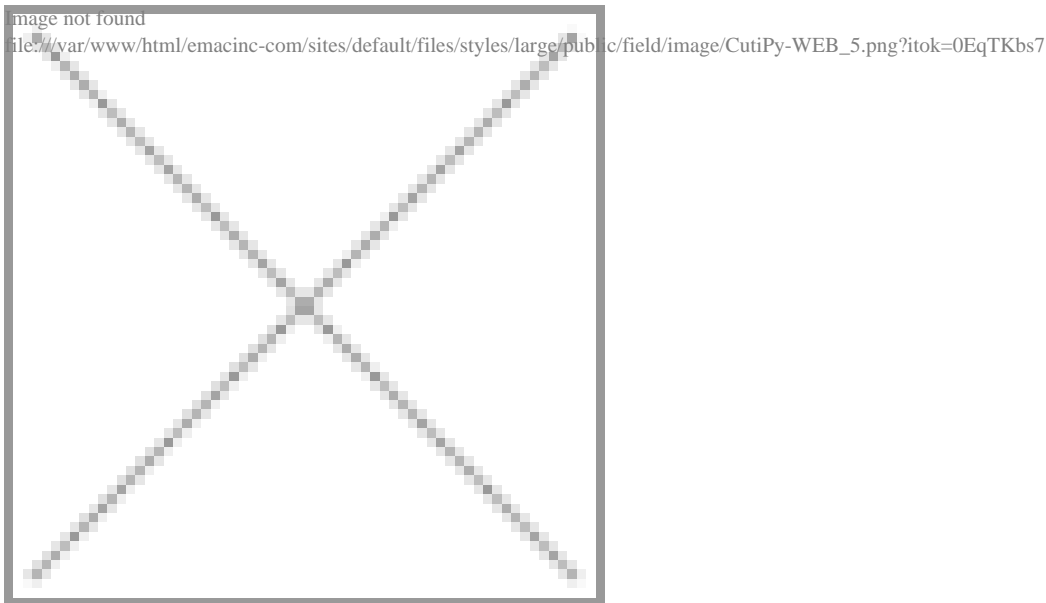


Source URL: <http://www.emacinc.com/news/cutipy%E2%84%A2-industrial-iot-microcontroller>

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## CutiPy™ Industrial IoT microcontroller

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Designed and Manufactured in the USA the CutiPy™ Industrial IoT microcontroller was created to simplify connecting devices and machines to the multitude of systems found in an industrial environment. EMAC Inc. has designed an easy to use embedded solution that can be implemented anywhere from the factory floor to an offsite remote location.

[http://www.emacinc.com/products/pc\\_compatible\\_sbcs/IOT-F407C](http://www.emacinc.com/products/pc_compatible_sbcs/IOT-F407C)

Based on the STMicroelectronics STM32F407IGH6, the CutiPy™ has an ARM Cortex-M4 processor running at 168MHz; with 192KB of SRAM, 1MB of internal flash and provides an SD card slot for additional storage. Standard IO interfaces are 2x USB 2.0 ports, 2x CAN 2.0B ports, 4x Serial ports, 2x SPI lines, 3x I2C connections, 24x GPIO connections (configurable as Timers, Counters, PWM, and GPIO), 8x High drive digital outputs, 13x 12-bit A/D ports, 2x 12-bit D/A ports and an onboard temperature sensor. The CutiPy™ can be used with a rechargeable Lithium Ion battery connection for power, with built in charging circuitry from USB or a 5v power connector. Wireless module options provide connectivity on 802.11 a/b/g/n, Bluetooth, Thread and Zigbee networks. The CutiPy is ready for IoT success with simplified expansion. Two 50-pin expansion connectors offer access to most of the onboard IO connections through the use of a daughter card shield for a semi-custom approach to board design. The CutiPy™ is available with an optional 128x32 LCD, 4 user programmable buttons and 4 LEDs. The CutiPy™ can be used as a local interface or configured to connect to the cloud to capture, log and analyze data.

The CutiPy™ comes loaded with MicroPython or FreeRTOS operating system. The MicroPython allows for easy software development and testing with simple scripted commands. Whereas FreeRTOS is ready to run and has connection API for Amazon Web Services "AWS". Both platforms can easily get your Industrial IOT project connected to the cloud.

View the product video here for further information.

Please contact EMAC for OEM & Distributor Pricing.

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