DEV-IIOTC CutiPy™



Features

- STM32F407IGH6 ARM Cortex-M4
- 168MHz w/Math Coprocessor
- 192KB of SRAM, Up to 1MB of Flash
- RTC with battery backup & Temperature Sensor
- 16x External Dedicated GPIOs (64x fully allocated)
- 4x Serial Ports, USB, SDIO, A/D, SPI, I2C & CAN
- Zigbee, Thread, BLE & Wi-Fi (Optional)
- MicroPython & FreeRTOS











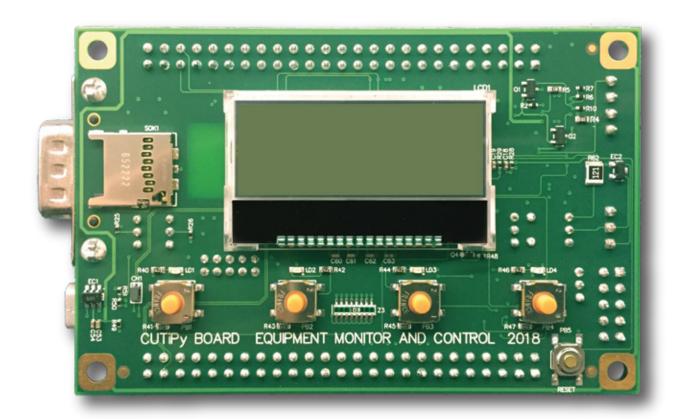
Specifications

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Processor	STM32F407IGH6 ARM Cortex-M4 w/Math Coprocessor				
	168 MHz				
Memory	192 KB of SRAM				
	Up to 1MB of Flash				
I/O	16x External Dedicated GPIOs (64x fully allocated)				
	1x microSD Card Slot				
	1x CAN 2.0B Port (Internal Shared w/Transceiver, External Shared w/o Transceiver)				
	2x USB 2.0 Full Speed OTG Ports (1x Internal, 1x External)				
	4x Serial Ports (1x RS232 Internal, 1x RS232/485 Internal, 2x TTL Shared)				
	2x SPI Ports (1x Internal, 1x External)				
	3x I2C hardware Ports (1x Internal, 2x External)				
	24x Timer/Counters/PWM/Capture				
	RTC with on-board battery backup & Temperature Sensor				
	1x Reset Button and 2x Dual Color Status LEDs				
	Graphic 132x32 LCD with 4x pushbuttons & 4x LEDs (Optional)				
A mala m	13x A/D Channels with 12-bit Resolution (3 Unique A/Ds)				
Analog	2x D/A Channels with 12-bit Resolution				
	802.11 a/b/n Wi-Fi (Optional)				
Wireless	Bluetooth Low Energy (BLE) (Optional)				
	802.14.4 ZigBee (Optional)				
	802.14.4 Thread (Optional)				
Expansion	2x 50 pin Female Expansion Connectors				
Software	MicroPython (FreeRTOS optional)				
Dimensions	2.25" x 3.5"				
Power Req.	5Vdc				
	49.5mA with 3.7 volts supplied through the battery terminal				
Environment	-40° to +85° C Industrial Temperature - Power Recharging				
	90% Operating Humidity non-condensing				

Last Updated: 1-20-20 / Product specifications are subject to change without notice.



IoT Edge/Gateway



Ordering Information

PRODUCT #	CPU	MEMORY	SERIAL	GPIO	USB	ANALOG	WIRELESS	TEMPERATURE
IOT-F407C-001	STM32F407IGH6 ARM Cortex-M4 168 MHz	192 KB SRAM, 1MB Flash	1X 1\3 1 03	16x, 8x Hi- Drive	2v OTG	13x Channels 12-bit A/D 2x Channels 12-bit D/A	Wi-Fi, BLE, LCD	-40° to 85° C

Included Accessories

PRODUCT#	Accessories			
CAB-35-001	DB9 Null-Modem serial cable			
PER-PWR-0101PR	Battery LI-ION Rechargeable 3.7V 1.2AH			
CAB-40-015	USB micro to USBA debug and programming cable			
CAB-35-001	DB9 to 10 pin ldc second serial port cable			



IoT Edge/Gateway