

硬件产品

采集器M-BOX-200

- 产品概述：集成2.4GHz Wi-Fi和蓝牙双模的IIoT监控解决方案
- 应用场景：监控设备的接口、I/O数据，通过Modbus、OPC UA、MQTT等形式发布





产品规格

硬件核心板

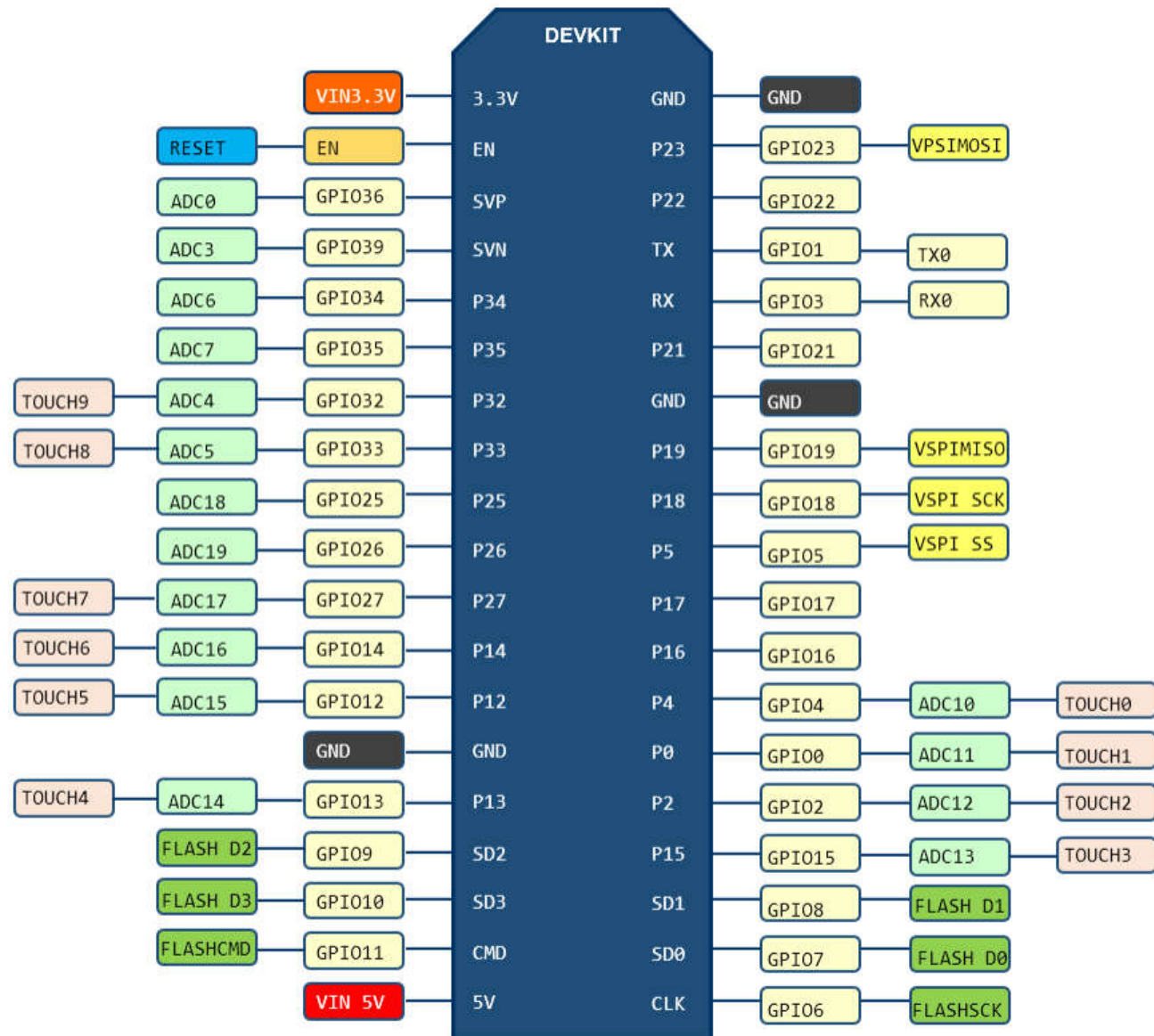
- Xtensa® 32-bit LX6双核处理器，时钟频率的调节范围为80MHz到240MHz
- 520kB Internal SRAM
- 448kB Internal ROM
- 4MB SPI Flash
- 集成通信包仲裁器(PTA)，采用时分复用(TDM)的方式自动协调Wi-Fi和蓝牙2个协议栈共存

软件开发环境

- NodeMonitor SDK
- 对接设备串口、I/O等，对设备数据进行采集处理
- 数据持久化，配置、历史数据掉电保存
- 支持Modbus、OPC UA、MQTT协议
- OTA远程升级



产品规格



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Categories	Items	Specifications
Certification	RF certification	FCC/CE/IC/TELEC/KCC/SRRC/NCC
	Wi-Fi certification	Wi-Fi Alliance
	Bluetooth certification	BQB
	Green certification	RoHS/REACH
Wi-Fi	Protocols	802.11 b/g/n (802.11n up to 150 Mbps)
		A-MPDU and A-MSDU aggregation and 0.4 μ s guard interval support
	Frequency range	2.4 GHz ~ 2.5 GHz
Bluetooth	Protocols	Bluetooth v4.2 BR/EDR and BLE specification
	Radio	NZIF receiver with -97 dBm sensitivity
		Class-1, class-2 and class-3 transmitter
		AFH
	Audio	CVSD and SBC

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Categories	Items	Specifications
Hardware	Module interface	SD card, UART, SPI, SDIO, I2C, LED PWM, Motor PWM, I2S, IR
		GPIO, capacitive touch sensor, ADC, DAC
	On-chip sensor	Hall sensor
	On-board clock	40 MHz crystal
	Operating voltage/Power supply	2.7 ~ 3.6V
	Operating current	Average: 80 mA
	Minimum current delivered by power supply	500 mA
	Recommended operating temperature range	-40°C ~ +85°C
	Package size	(18±0.2) mm x (25.5±0.2) mm x (3.1±0.15) mm
Software	Wi-Fi mode	Station/SoftAP/SoftAP+Station/P2P
	Wi-Fi Security	WPA/WPA2/WPA2-Enterprise/WPS
	Encryption	AES/RSA/ECC/SHA
	Firmware upgrade	UART Download / OTA (download and write firmware via network or host)
	Software development	Supports Cloud Server Development / SDK for custom firmware development
	Network protocols	IPv4, IPv6, SSL, TCP/UDP/HTTP/FTP/MQTT
	User configuration	AT instruction set, cloud server, Android/iOS app