Bazaar / Wireless / Wifi / EMW3165 - Cortex-M4 based WiFi SoC Module

EMW3165 - Cortex-M4 based WiFi SoC Module

SKU 113990108

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Description

EMW3165 is a low-power embedded Wi-Fi module integrates a wireless LAN MAC/baseband /radio, and a Cortex-M4 microcontroller STM32F411CE that runs a unique "self-hosted" Wi-Fi networking library and software application stack. EMW3165 has 2M bytes of on-board flash besides 512K bytes of in-chip flash, 128K bytes RAM and rich peripherals for user embedded Wi-Fi applications.

EMW3165 is also a MiCO platform, users can build their own embedded Wi-Fi applications based on MiCO library which manage all of the Wi-Fi MAC and TCP/IP stack processing. We also provide independent series of particular firmware to meet typical applications: Wireless UART, Cloud Service etc.

FEATURES

• Consists of a Cortex-M4 microcontroller and an IEEE 802.1™ b/g/n chip
• Cortex-M4 core at 100MHz
• 2M bytes on-board SPI flash and 512K bytes on-chip flash
• 128K bytes RAM
• Operation voltage:3.0V~3.6V

Peripherals

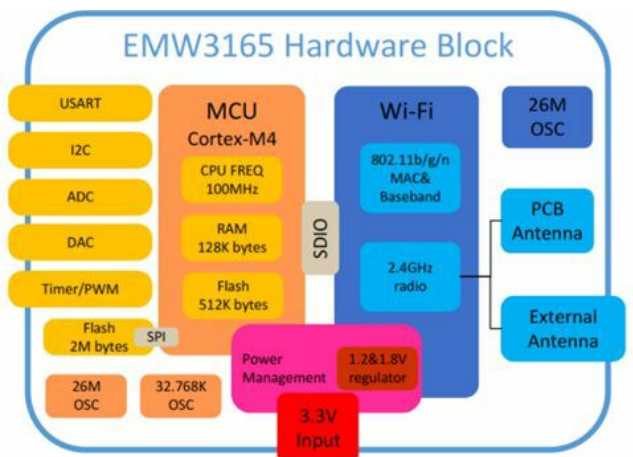• 22 GPIOs
• JTAG/SWD debug interface

Wi-Fi connectivity

• 802.11b, 802.11g, 802.11n (single stream)
• WEP, WPA/WPA2 PSK/Enterprise
• 16.5dBm@11b, 14.5dBm@11g 13.5dBm@11n
• Receiver Sensitivity: -87 dBm
• Station, Soft AP and Wi-Fi direct
• Support EasyLink
• On-board PCB antenna, IPEX connector for external antenna
• CE, FCC compliant

The main difference between EMW3162 and EMW3165 are:

(1) EMW3162 built-in frequency up to 120MHz Cortex-M3 microcontroller STM32F205RG, 1M byte of Flash, 128k bytes of SRAM and extensive peripheral functions with the MxchipWnet embedded Wi-Fi firmware.

EMW3165 with a Cortex-M4 microcontroller STM32F411CE that runs a unique "self-hosted" Wi-Fi networking library and software application stack. EMW3165 has 2M bytes of on-board flash besides 512K bytes of in-chip flash, 128K bytes RAM and rich peripherals for user embedded Wi-Fi applications.

(2) EMW3165 is more cost-efficient than EMW3162 suitable for those clients with volume requirements

SPECIFICATION (Hardware Block)

APPLICATIONS

• Building Automation / Access Control
• Smart home appliances
• Medical/Health Care
• Industrial Automation Systems
• Point Of Sale system (POS)
• Auto electronics
We also have the External IPEX antenna module: EMW3165-Cortex-M4 based WiFi SoC Module (External IPEX antenna) and the evaluation board: EMWE - 3165 - A Development Board on sale.

PART LIST

1 x EMW3165

DOCUMENTS
Datasheet
FCC certification
Code is available on Github

There is a forum for you to discuss and show your idea: www.emw3165.com
For any technical support or suggestion, please kindly go to our forum.
If you have any technical problem, please contact sales@mxchip.com.

Technical Details

Dimensions100mm x 60mm x 3mm
Weight   G.W 3g
Battery   Exclude

ECCN/HTS

ECCN   Not Available
HSCODE8517709000

Questions and Answers

Have a question about this? Ask people who

0   is there any tool(sdk) for emw3165 dev board for linux platform?

amarjeet.kumar on Jun 19,2018   Reply   upvote (0)

Hi,there- you can go to the forum **www.emw3165.com** for technical support or suggestion, thanks!

Seeed Techsupport Team on Jun 21,2018 13:40 PM   Reply   upvote (0)

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