

STM32F4 Discovery kit expansion boards

Data brief

Features

- Base board
 - Micro SD Card™ slot
 - 10/100 Ethernet with IEEE 1588v2 (RJ45 connector)
 - Connector for camera board
 - Connector for LCD board
 - Connector with UART, I2C, SPI, CAN, PWM and GPIOs
- 3"5 LCD board
 - Driving IC: SSD2119
 - Display format: 320 * 240
 - Color: 262K colors
 - Backlight: PWM control
 - Interface: 16-bit 8080 parallel system interface
 - Touch screen: 4-wire resistive touch screen
- Camera board
 - Signal system: CMOS 1.3 Megapixel
 - Resolution: Up to 1280 * 1024
 - Supports still photos
 - Frame rate: 15 fps for SXGA, 30 fps for VGA and CIF.
- Wi-Fi board
 - 2.4GHz IEEE 802.11b/g/n
 - Support AP/STA Dual mode
 - Built-in TCP/IP Stack, HTTP, DHCP, DNS and Web Server
 - Support WPA/WPA2 PSK security
 - Wi-Fi SN8200 module: chipset: Broadcom BCM43362 and STM32
 - Host Interface: UART, SPI Interface & Standalone
 - Other Interface: GPIO, ADC, DAC, I2C
 - JTAG Interface for Debugging
 - Power Options:
 - 5V Power Jack
 - Mini USB Plug



Description

This set of 4 boards expands the functionality of the STM32F4 Discovery kit. A base board, connected to the STM32F4 Discovery provides Ethernet connectivity, a micro SD Card™ slot and extension connectors for the LCD and camera boards, and provides easy access to features such as UART, SPI, CAN and so on. The Wi-Fi board connects to the STM32F4 Discovery using serial host interface (UART or SPI). A digital camera board featuring a 1.3 Megapixel CMOS sensor, a 3"5 LCD board with touch screen capability connected to the base board along with a Wi-Fi board featuring the SN8200 Wi-Fi module form a complete system.

For more information, visit

www.element14.com/stm32f4-expansion

Ordering information

Table 1. Order codes

| Order code | Reference |
|-----------------|---|
| STM32F4DIS-BB | Base Board for the STM32F4 Discovery |
| STM32F4DIS-CAM | Camera board for the STM32F4 Discovery |
| STM32F4DIS-LCD | 3"5 LCD board for the STM32F4 Discovery |
| STM32F4DIS-WIFI | Wi-Fi board for the STM32F4 Discovery |

For more information, documentation and downloads, refer to STMicroelectronics microcontroller support site, www.st.com.

Revision history

Table 2. Document revision history

| Date | Revision | Changes |
|-------------|----------|---|
| 14-Dec-2012 | 1 | Initial release. |
| 15-Nov-2013 | 2 | Add Wi-Fi features. Description modified |

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