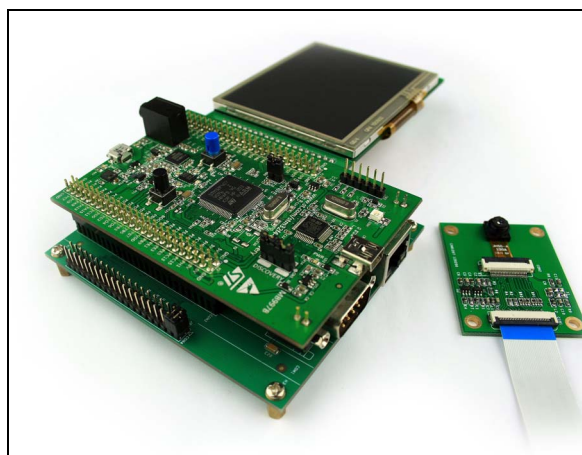# STM32F4DIS-EXT

Expansion boards for the STM32F4 Discovery kit

Data brief

Features

- Base board:
  - microSD card™ slot
  - 10/100 Ethernet with IEEE 1588v2 (RJ45 connector)
  - Connector for camera board
  - Connector for LCD board
  - Connector for UART, I^{2}C, 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
  - Support for still photos
  - Frame rate: 15 fps for SXGA, 30 fps for VGA and CIF
- Wi-Fi® board
  - 2.4 GHz IEEE 802.11b/g/n
  - AP/STA Dual mode
  - Built-in TCP/IP stack, HTTP, DHCP, DNS and Web Server
  - Support for WPA/WPA2 PSK security
  - Wi-Fi® SN8200 module: chipset Broadcom BCM43362 and STM32
  - UART or SPI as host interface or standalone station
  - Other interfaces: GPIO, ADC, DAC, I^{2}C
  - JTAG interface for debugging
  - Power options: 5 V power jack, Mini USB Plug

1. Picture is not contractual.

Description

This set of four boards (STM32F4DIS-EXT) expands the functionality of the STM32F4 Discovery kit. A base board connected to the STM32F4 Discovery kit provides a microSD card™ slot, Ethernet connectivity, extension connectors for LCD and camera boards as well as an easy access to UART, SPI, CAN and other interfaces. The Wi-Fi® board connects to the STM32F4 Discovery kit using a serial host interface (UART or SPI). A digital camera board featuring a 1.3-Megapixel CMOS sensor and 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 the webpage:
http://www.st.com/stm32f4dis-expansion

www.st.com

Ordering information

Table 1. Order codes

Order code	Reference for the STM32F4 Discovery kit
STM32F4DIS-BB	Base board
STM32F4DIS-CAM	Camera board
STM32F4DIS-LCD[1]	3"5 LCD board
STM32F4DIS-WIFI[1]	Wi-Fi board

1. ST order code is discontinued, this product can be ordered on the http://www.element14.com webpage.

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	*Description* modified to add Wi-Fi feature.
15-May-2017	3	Updated *Table 1*.

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