

## 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](http://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](http://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.<br>Description modified |

**Please Read Carefully:**

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

**UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.**

**ST PRODUCTS ARE NOT DESIGNED OR AUTHORIZED FOR USE IN: (A) SAFETY CRITICAL APPLICATIONS SUCH AS LIFE SUPPORTING, ACTIVE IMPLANTED DEVICES OR SYSTEMS WITH PRODUCT FUNCTIONAL SAFETY REQUIREMENTS; (B) AERONAUTIC APPLICATIONS; (C) AUTOMOTIVE APPLICATIONS OR ENVIRONMENTS, AND/OR (D) AEROSPACE APPLICATIONS OR ENVIRONMENTS. WHERE ST PRODUCTS ARE NOT DESIGNED FOR SUCH USE, THE PURCHASER SHALL USE PRODUCTS AT PURCHASER'S SOLE RISK, EVEN IF ST HAS BEEN INFORMED IN WRITING OF SUCH USAGE, UNLESS A PRODUCT IS EXPRESSLY DESIGNATED BY ST AS BEING INTENDED FOR "AUTOMOTIVE, AUTOMOTIVE SAFETY OR MEDICAL" INDUSTRY DOMAINS ACCORDING TO ST PRODUCT DESIGN SPECIFICATIONS. PRODUCTS FORMALLY ESCC, QML OR JAN QUALIFIED ARE DEEMED SUITABLE FOR USE IN AEROSPACE BY THE CORRESPONDING GOVERNMENTAL AGENCY.**

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2013 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco - Philippines - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

[www.st.com](http://www.st.com)



# AMEYA360

## Components Supply Platform

### Authorized Distribution Brand :



### Website :

Welcome to visit [www.ameya360.com](http://www.ameya360.com)

### Contact Us :

#### ➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

#### ➤ Sales :

Direct +86 (21) 6401-6692

Email [amall@ameya360.com](mailto:amall@ameya360.com)

QQ 800077892

Skype ameyasales1 ameyasales2

#### ➤ Customer Service :

Email [service@ameya360.com](mailto:service@ameya360.com)

#### ➤ Partnership :

Tel +86 (21) 64016692-8333

Email [mkt@ameya360.com](mailto:mkt@ameya360.com)