

STEVAL-CCM001V2

Graphic panel demonstration board based on the STM32

Data brief

Features

- Microcontroller: STM32-HD (64 KB RAM)
- 320 x 240 resolution parallel TFT screen using FSMC peripheral for faster display
- Bluetooth module footprint
- Touchscreen for user interface
- ZigBee[®] for picture transfer
- STM32-based RTC available to display date/time and calendar
- MEMS device to rotate the image based on TFT position
- MicroSD card interfaced through SDIO
- USB Mini-B connector
- PC connectivity
- User-programmable time interval for photo display
- Senses temperature and displays data on TFT
- On-board power supply for DPF
- Rechargeable battery circuit available
- On-board JTAG connector for firmware upgrade and modifications
- Additional ESD protection device for USB and SD card
- RoHS compliant

Description

The STM32-based STEVAL-CCM001V2 graphic panel demonstration board displays images oneby-one in a slideshow fashion. The heart of this board is the STM32 microcontroller, which is capable of reading a memory card containing photographs, and display them on a TFT screen. The memory used to store the images is a microSD card. A 3-axis MEMS accelerometer is used for picture orientation.

With the growing popularity of digital cameras and cellular phones with high-pixel photo capability, it

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Doc ID 17002 Rev 1



1/7

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STEVAL-CCM001V2

is becoming more common for people to store

The application can be used either as a standalone solution, or combined with other applications such as POS, card readers, security panels, USB speakers or high-end remote controls.

Schematic diagrams 1









57



Figure 2. Connectors (TFT, microSD, JTAG, temp sensor, ZigBee, bluetooth, touch board connector)

Doc ID 17002 Rev 1



Doc ID 17002 Rev 1



4/7

57



Doc ID 17002 Rev 1

5/7

2 Revision history

Table 1.Document revision history

Date	Revision	Changes
03-Mar-2010	1	Initial release.

Doc ID 17002 Rev 1



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