STM3221G-EVAL
Evaluation board with STM32F217IGH6 MCU

Data brief

Features

- 16-Mbit SRAM
- 1-Gbyte or more microSD™ card
- Boot from user Flash, system memory or SRAM
- Both ISO/IEC 14443 type A and B smartcard support
- I²C compatible 64-Kbit serial interface EEPROM, ST MEMS and I/O expander
- IEEE 802.3-2002 compliant Ethernet connector
- Two CAN 2.0 A/B channels on the same DB connector
- RS-232 communication
- IrDA transceiver (up to board version MB786 C-07)
- USB OTG (HS and FS) with Micro-AB connector
- Inductor motor control connector
- I²S audio DAC, stereo audio jack for headset
- 3.2" 240x320 TFT color LCD with touch screen
- 4 colored LEDs
- Camera module and extension connector for ST camera plug-in
- Joystick with 4-direction control and selector
- Reset, wakeup, tamper and user button
- RTC with backup battery
- Extension connector for daughterboard or wrapping board
- JTAG, SW and trace debug support
- Embedded ST-LINK/V2
- Five 5V power supply options: power jack, USB FS connector, USB HS connector, ST-LINK/V2 or daughterboard

Description

The STM3221G-EVAL evaluation board is a complete demonstration and development platform for the STM32F2 Series and includes an STM32F217IGH6 high-performance ARM® Cortex®-M3 32-bit microcontroller with a cryptographic acceleration cell.

The full range of hardware features on the board helps users to evaluate all the peripherals (USB OTG HS, USB OTG FS, Ethernet, motor control, CAN, microSD™ card, smartcard, USART, Audio DAC, RS-232, IrDA transceiver up to board version MB786 C-07, SRAM, ST MEMS, EEPROM, and others) and to develop applications.

The embedded in-circuit ST-LINK/V2 provides debugger and programmer facilities for the STM32.
1 System requirements

- Windows® OS (XP, 7, 8)
- USB type A to type B or Mini-B cable

2 Development toolchains

- IAR EWARM (IAR Embedded Workbench®)
- Keil® MDK-ARM™
- GCC-based IDEs (free AC6: SW4STM32, Atollic® TrueSTUDIO®,...)

3 Demonstration software

Demonstration software is preloaded in the board-mounted Flash memory for easy demonstration of the device peripherals in standalone mode. For more information and to download the latest version, refer to STM3221G-EVAL demonstration software at the www.st.com website.

4 Ordering information

To order the STM3221G-EVAL evaluation board, refer to Table 1:

<table>
<thead>
<tr>
<th>Table 1. Ordering information</th>
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</thead>
<tbody>
<tr>
<td><strong>Order code</strong></td>
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<tr>
<td>STM3221G-EVAL</td>
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5 Revision history

Table 2. Document revision history

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>24-Mar-2011</td>
<td>1</td>
<td>Initial release.</td>
</tr>
<tr>
<td>2-Nov-2012</td>
<td>2</td>
<td>Added information in the description about the cryptographic acceleration cell. Changed the “STM32 F-2 series” in the description to “F2”.</td>
</tr>
<tr>
<td>03-Nov-2016</td>
<td>3</td>
<td>Updated IrDA transceiver version in Features and Description. Added sections: Section 1: System requirements, Section 2: Development toolchains</td>
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</table>
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