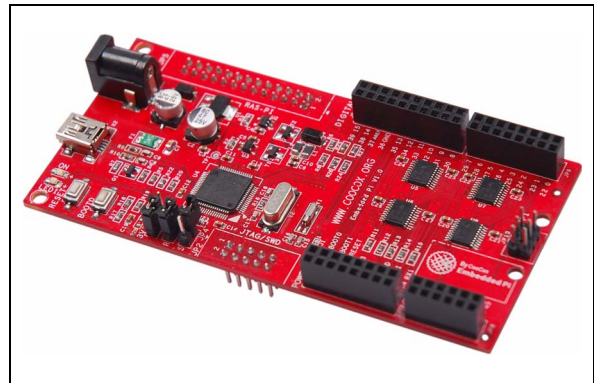


Embedded Pi, triple-play platform for STM32, Raspberry Pi and Arduino™

Data brief

Features

- STM32F103 running at 72 MHz with 128 Kbytes Flash memory and 20 Kbytes RAM
- Form factor compatible with both 5 V and 3V3 Arduino™ shields, selectable with jumpers
- Hundreds of Arduino™ shields available on the market enhance the control capability of Embedded Pi and Raspberry Pi, e.g. to control motor, sensors, etc.
- Direct connection to the Raspberry Pi
- Selection of one of the three modes of operation with a jumper
- Arduino™ form factor compatible interfaces:
 - 1 SPI
 - 1 I2C
 - 4 PWM
 - 1 UART
 - 6 analog inputs
- Embedded Pi extended interfaces:
 - 1 SPI
 - 1 I2C
 - 2 PWM
 - 1 UART
 - 6 analog inputs
 - 1 CAN



Description

The Embedded Pi, based on the STM32F103 MCU, is a triple-play platform for Raspberry Pi, Arduino™ and the STM32 MCU family. Blending all three communities together, the Embedded Pi helps you to get the most out of each platform. The Embedded Pi can operate in 3 modes: Standalone, ST-Adapter and Raspberry Pi.

In Standalone mode the Embedded Pi acts as a base platform, the STM32F103 controls the Arduino™ shields directly.

In ST-Adapter mode the Embedded Pi controls the Arduino™ shields, and the Raspberry Pi acts as the GUI or command line console that send commands and data to, and receives data from, the Embedded Pi.

In Raspberry Pi mode the Embedded Pi acts as a hardware connection bridge between the Raspberry Pi and Arduino™ shields.

For more information, visit www.element14.com/embedded-pi

1 Ordering information

To order the STM32-EMBPI/14 Embedded Pi triple-play platform, use the order code STM3210B-ARD.

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
02-Oct-2013	1	Initial release.

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