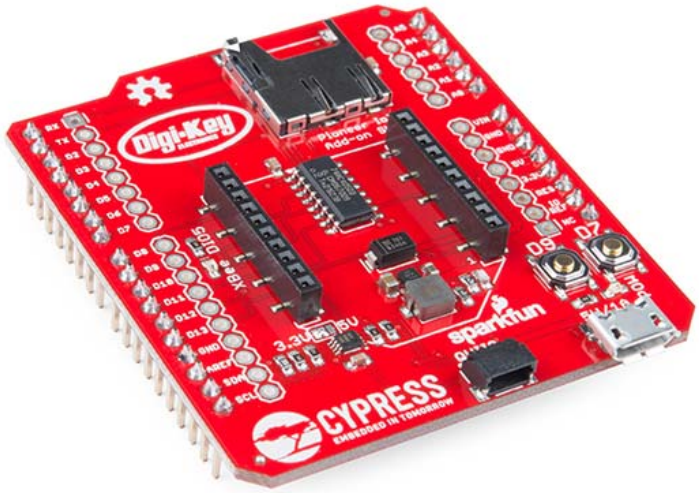
Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Pioneer IoT Add-On Shield

DEV-14531 RoHS Open Source Hardware

The Pioneer IoT Add-On Shield is a unique board designed to add more functionality to the PSoC 6 from Cypress while remaining useful and practical for plenty of other Internet of Things applications. Each Add-On Shield is a pretty simple board with an equally simple layout that provides XBee, Qwiic and microSD functionality not only to the PSoC 6 but also to any board with an Arduino R3 shield format. On top of designing this board with a reliable IoT performance, we have written a guide that will show you how to communicate with a Raspberry Pi via Bluetooth® and WiFi, as well as how to communicate between a PSoC 4 BLE Pioneer Board and the PSoC 6 Pioneer Board via Bluetooth Low Energy.

In addition to the microSD card slot, XBee headers and Qwiic connector, the Pioneer IoT Add-On Shield is equipped with a micro-B USB connector. This connector provides 5V to the 3.3V regulator for the XBee module, overriding the 5V coming from the Arduino header and allowing high-power XBee modules to function properly. This is all thanks to the 3.3V regulator, level shift buffer, I²C level shift circuitry and a voltage supply selection jumper — all found on the shield!

If you aren't familiar with it, the PSoC 6 Pioneer Board is the development tool associated with this processor line, sporting an onboard debugger, Arduino-compatible headers, CapSense widgets and more — all tied to a PSoC 6 processor. The processor is a dual-core device, with a Cortex-M0+ low-power processor and a Cortex-M4 high-power processor tied together via shared peripherals and memory space.

FEATURES

- Arduino R3 Shield Layout
- XBee Header
- MicroSD Card Slot
- Qwiic Connector
- Micro-B USB Power Connector
- 3.3V Regulator
- Level Shift Buffer
- I²C Level Shift Circuitry
- Voltage Supply Selection Jumper