



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

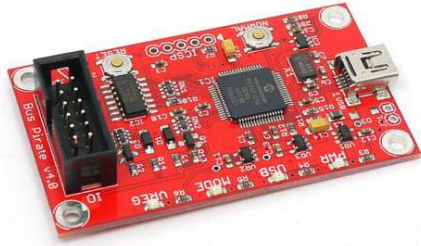
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## Bus Pirate v4

SKU: 102990041



### Description

Bus Pirate v4 ([http://dangerousprototypes.com/docs/Bus\\_Pirate](http://dangerousprototypes.com/docs/Bus_Pirate)) is a universal bus interface that talks to electronics from a computer serial terminal. Get to know a chip without writing code. Eliminates a ton of early prototyping effort with new or unknown chips. Seeed Studio is the official manufacturer and supporter of the Bus Pirate project. Version 4 is the next generation Bus Pirate hardware, but it's not as stable as Bus Pirate v3 (<http://www.seeedstudio.com/depot/bus-pirate-v3-assembled-p-609.html?cPath=174>). If you're just starting out with the Bus Pirate we still recommend v3 - it's cheaper, more reliable, and has all the same major features. See a [Bus Pirate v4 vs v3 comparison](http://dangerousprototypes.com/docs/Bus_Pirate_v4_vs_v3_comparison) ([http://dangerousprototypes.com/docs/Bus\\_Pirate\\_v4\\_vs\\_v3\\_comparison](http://dangerousprototypes.com/docs/Bus_Pirate_v4_vs_v3_comparison)). **Protocols** 1-Wire, I2C, SPI, JTAG, asynchronous serial (UART), MIDI, PC keyboard, HD44780 LCDs, and generic 2- and 3-wire libraries for custom protocols.

### Features

- USB interface, USB powered
- 5volt tolerant pins
- 0-6volt measurement probe
- 1Hz-40MHz frequency measurement
- 1kHz-4MHz pulse-width modulator, frequency generator
- On-board multi-voltage pull-up resistors
- On-board 3.3volt and 5volt power supplies with software reset
- Macros for common operations
- Bus traffic sniffers (SPI, I2C)
- Transparent USB->serial bridge mode
- 10Hz-1MHz low-speed logic analyzer
- Custom support in AVRDUDE (<http://savannah.nongnu.org/projects/avrdude>) , Flashrom (<http://www.flashrom.org/Flashrom>) , OpenOCD (<http://openocd.berlios.de/web/>)
- AVR STK500 v2 programmer clone
- Scriptable from Perl, Python, etc.
- A bootloader for easy USB firmware updates
- Open source (CC 0/public domain)

### New in Bus Pirate v4

- 256K program space, 4 times more flash than v3
- Integrated, on-board USB (faster)
- Data storage EEPROM to store settings
- Software pull-up voltage selection: 3.3volt, 5volt, or external supply
- 2 extra I/O pins
- Multipurpose button

- Bus Pirate v4 vs v3 comparison  
([http://dangerousprototypes.com/docs/Bus\\_Pirate\\_v4\\_vs\\_v3\\_comparison](http://dangerousprototypes.com/docs/Bus_Pirate_v4_vs_v3_comparison))

### Support

- Bus Pirate manual ([http://dangerousprototypes.com/docs/Bus\\_Pirate%20v3.5](http://dangerousprototypes.com/docs/Bus_Pirate%20v3.5))
- Bus Pirate v4 hardware overview  
([http://dangerousprototypes.com/docs/Bus\\_Pirate\\_v4\\_design\\_overview](http://dangerousprototypes.com/docs/Bus_Pirate_v4_design_overview))
- Chip demonstrations ([http://dangerousprototypes.com/docs/Bus\\_Pirate#Chip\\_demonstrations](http://dangerousprototypes.com/docs/Bus_Pirate#Chip_demonstrations))
- Latest firmware (<http://code.google.com/p/the-bus-pirate/>)
- Bus Pirate forum (<http://dangerousprototypes.com/forum/viewforum.php?f=4>)

### Firmware Upgrade Notification:

If you are unsatisfied with the current firmware version, please check with the newly upgrade firmware v6.1 :[http://dangerousprototypes.com/docs/Bus\\_Pirate\\_v4\\_firmware\\_updates](http://dangerousprototypes.com/docs/Bus_Pirate_v4_firmware_updates)  
([http://dangerousprototypes.com/docs/Bus\\_Pirate\\_v4\\_firmware\\_updates](http://dangerousprototypes.com/docs/Bus_Pirate_v4_firmware_updates))

### First batch warning

<> Each Bus Pirate v4 is tested before it leaves the factory, but please keep in mind that v4 is still experimental, unproven hardware. If in doubt please buy the cheaper Bus Pirate v3 (<http://www.seeedstudio.com/depot/bus-pirate-v3-assembled-p-609.html?cPath=174>), it is still manufactured and actively supported. This hardware is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

If you encounter any problems when using this product, here is the forum (<http://dangerousprototypes.com/forum/index.php>) from which you can get the technical support.