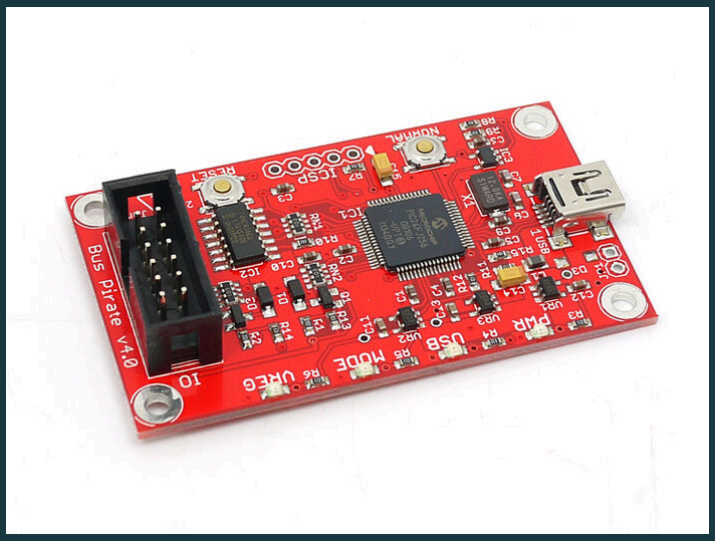
seeed studio

INDUSTRIAL PRODUCT DATASHEET

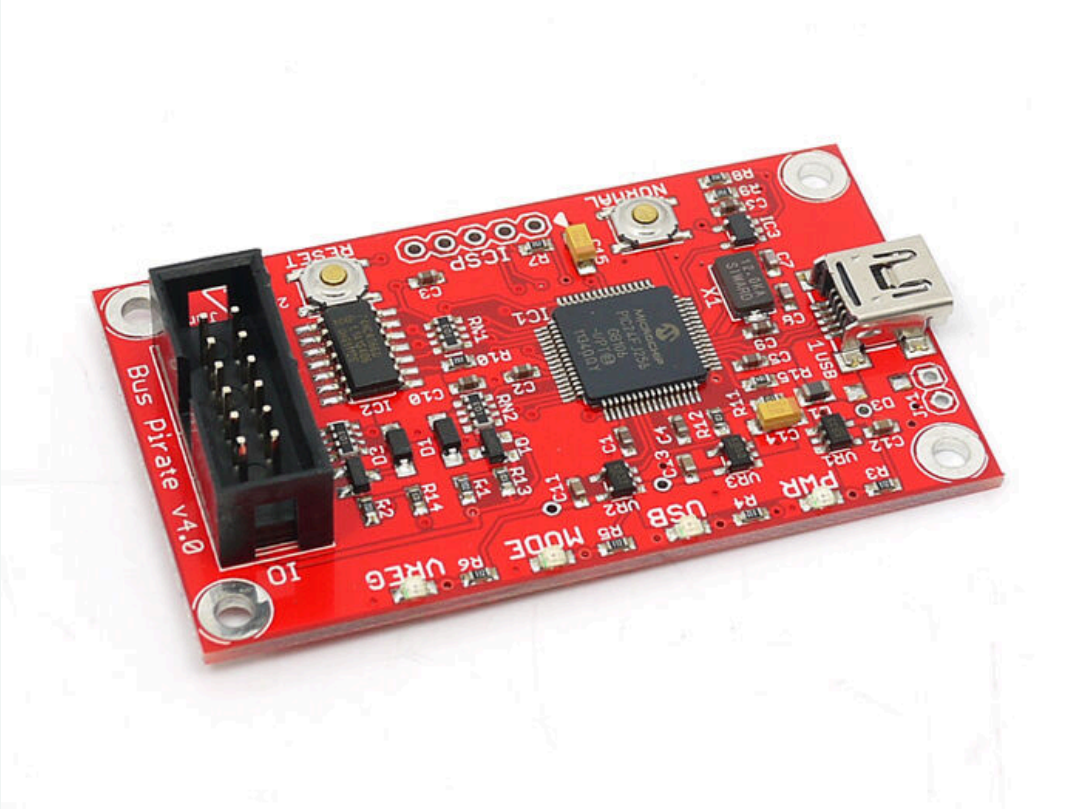
Bus Pirate v4

Bus Pirate v4 is a no-longer-available universal bus interface that talks to electronics from a computer serial terminal, with USB-powered measurement, programming, and protocol support including 1-Wire, I2C, SPI, JTAG, UART, MIDI...

SKU	UPDATED	PRICE
102990041	2026-10-23 03:11:07	$37.15(Excl. VAT)



Overview



Bus Pirate v4 is a universal bus interface that talks to electronics from a computer serial terminal, eliminating a ton of early prototyping effort with new or unknown chips without writing code. This product is no longer available and is experimental, unproven hardware, but supports protocols including 1-Wire, I2C, SPI, JTAG, asynchronous serial (UART), MIDI, PC keyboard, HD44780 LCDs, and generic 2- and 3-wire libraries, with features such as 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, bus traffic sniffers, transparent USB->serial bridge mode, 10Hz-1MHz low-speed logic analyzer, and AVR STK500 v2 programmer clone.

Key Features

Note

This product is no longer available, you can visit other similar products, please refer to **this**.

Bus Pirate v4 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.

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. 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, Flashrom, OpenOCD
- 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

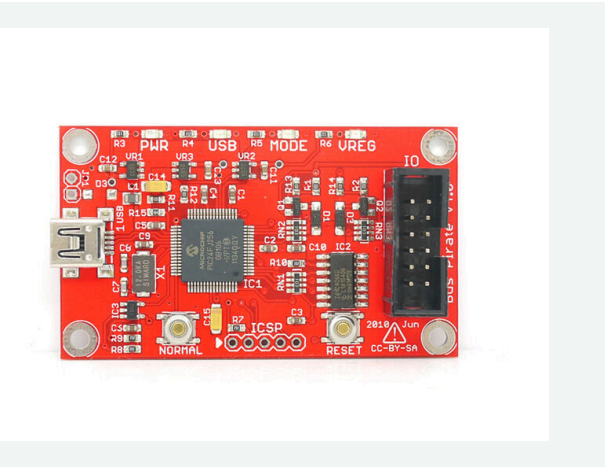
- 256K program space, 4 times more flash than v3
- Integrated, on-board USB (faster)
- Data storage EEPROM to store settings

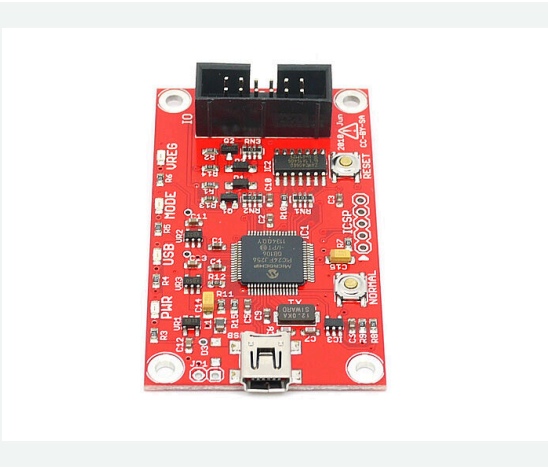
- Software pull-up voltage selection: 3.3volt, 5volt, or external supply
- 2 extra I/O pins
- Multipurpose button
- Bus Pirate v4 vs v3 comparison

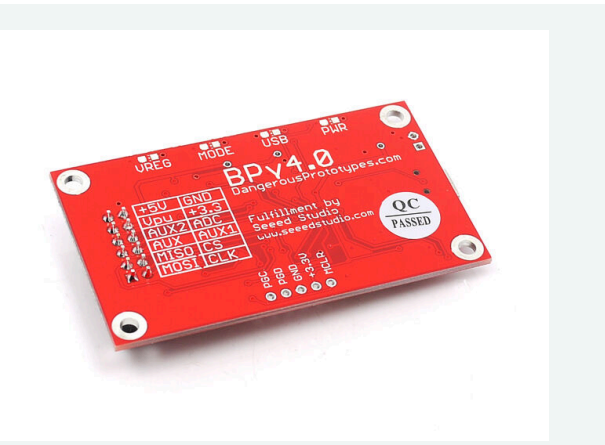
Firmware Upgrade Notification

- If you are unsatisfied with the current firmware version, please check with the newly upgrade firmware v6.1.
- 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, 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 from which you can get the technical support.

Product Gallery







Part List

Bus Pirate v4	1

Compliance & Logistics



HSCODE	8538900000
USHSCODE	8538901000
UPC	841454111160
EUHSCODE	8543709099
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Bus-Pirate-v4.html
- Bus Pirate manual
- Bus Pirate forum
- Chip demonstrations
- Latest firmware
- Bus Pirate v4 hardware overview

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