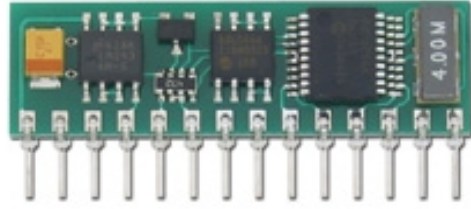


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## BASIC Stamp 1 Module

It's amazing what you can accomplish with this well-proven microcontroller and its simple PBASIC 1 language. All vital components (processor, clock source, memory, power regulator) are provided on the BS1-IC, so you just connect power and go! The BASIC Stamp 1 (BS1-IC) is an ideal fit for applications that don't require the speed, I/O, and memory of the BASIC Stamp 2 series of microcontrollers. Projects needing small, permanent soldering area for circuitry may benefit from combining the BS1-IC with the BASIC Stamp 1 Carrier Board (#27110) or simply using the BASIC Stamp 1 Project Board (#27112). For lower-cost OEM solutions, the processor (PBASIC1 interpreter) and other components are available for integration into your PCB. However, due to the fact that modules cost less than \$20 in large quantities, it's a strong candidate for high volume applications.

For customers that require a more powerful microcontroller, we highly recommend the BASIC Stamp 2 series controllers; if true multi-processing is what is needed for your project or applications, then the Propeller microcontroller is going to be the best option.

### Features:

- Processor Speed: 4 MHz
- Program Execution Speed: ~2,000 instructions/sec.
- RAM Size: 16 Bytes (2 I/O, 14 Variable)
- EEPROM (Program) Size: 256 Bytes ~80 instructions
- Number of I/O Pins: 8
- Current Draw @ 5 VDC: 1mA Run, 25 ?A Sleep
- Source/Sink Current per I/O: 20 mA / 25 mA
- Source/Sink Current per unit: 40 mA / 50 mA
- PBASIC Commands = 32
- Package: 14-pin SIP
- Industrial-Rated

### Key Specifications:

- Power Requirements: 5.5 to 15 VDC (Vin), or 5 VDC (Vdd)
- Communication: Serial for programming
- Dimensions: 1.41 x 0.40 x 0.15 in (35.8 x 10.2 x 3.81 mm)
- Operating Temperature: -40 to +185 °F (-40 to +85 °C)

### Included In:

- BASIC Stamp 1 Starter Kit

**Note:** BASIC Stamp 1 programming requires a BASIC Stamp 1 Serial Adapter (#27111)

### Downloads & Resources:

- [BASIC Stamp 1 Hardware Support](#)
- [BASIC Stamp Documentation](#)
- [BASIC Stamp Software](#)
- [BASIC Stamp Module Comparison \(.pdf\)](#)
- [BASIC Stamp FAQ \(.pdf\)](#)
- [BASIC Stamp 1 App Notes V1.9 \(.pdf\)](#)
- [BASIC Stamp 1 Schematic Rev.B \(.pdf\)](#)

### Related Products

256-byte EEPROM - Discontinued



BASIC Stamp 1 Carrier Board



BASIC Stamp 1 Project Board



BASIC Stamp 1 Serial Adapter



BASIC Stamp 1 Starter Kit



Parallax Professional Development Board (Serial)



Super Carrier Board



### Customers who bought this also bought

BASIC Stamp 1 Serial Adapter



BASIC Stamp 1 Carrier Board



3 Pin Single Row Header (long)



.1 uF mono radial capacitor



2N3904 NPN Transistor



10K ohm, 1/4 watt resistor

