

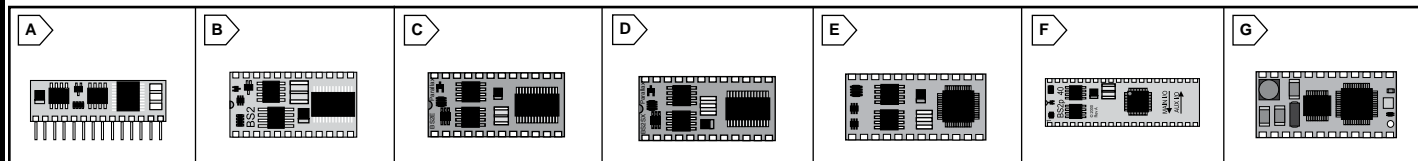
# PARALLAX BASIC Stamp Modules and Accessories

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Embedded Modules

## BASIC STAMP MODULES

BASIC Stamps are small computers with 8 or 16 I/O lines that can be connected to TTL level devices and also, with a few extra components, solenoids, relays, and RS232 networks. Their simple language and easy interfacing make BASIC Stamps ideal for many applications for industrial, educational, and hobbyist customers. BASIC Stamps require only editor software, a prototype area, and cable to get started. Each BASIC Stamp has on board it's own non-volatile EPROM, voltage regulator, resonator, and microcontroller.



• Operating Temperature at 70% Non-Condensing Humidity: 0°C to +70°C † Plus 2 Dedicated Serial I/O Pins For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	Parallax Part No.	Fig.	Package	Microcontroller	EEPROM Size (Bytes)	Speed	I/O Pins	PBASIC Commands	Interface (Port)	Operating Voltage	Price Each		
											1	10	25
619-BS1-IC	BS1-IC	A	SIP-14	Microchip PIC16C56c	256	4MHz	8	32	Parallel	5 - 15VDC			
619-BS2-IC	BS2-IC	B	DIP-24	Microchip PIC16C57c	2K	20MHz	16 †	36	Serial	5 - 15VDC			
619-BS2E-IC	BS2E-IC	C	DIP-24	Ubicom SX28AC	8 X 2K	20MHz	16 †	39	Serial	5 - 12VDC			
619-BS2SX-IC	BS2SX-IC	D	DIP-24	Ubicom SX28AC	8 X 2K	50MHz	16 †	39	Serial	5 - 12VDC			
619-BS2P24-IC	BS2P24-IC	E	DIP-24	Ubicom SX48AC	8 X 2K	20MHz Turbo	16 †	55	Serial	5 - 12VDC			
619-BS2PX-IC	BS2PX-IC	F	DIP-24	Ubicom SX48AC	8 x 2K	32MHz Turbo	16 †	63	Serial	5 - 12VDC			
619-BS2P40-IC	BS2P40-IC	F	DIP-40	Ubicom SX48AC	8 X 2K	20MHz Turbo	32 †	55	Serial	5 - 12VDC			
619-JS1-IC	JS1-IC	G	DIP-24	Ubicom SX48BD	32768	25MHz Turbo	16	0 (Java)	Serial	6 - 24VDC (unreg)			

## BASIC STAMP DISCOVERY KIT - SERIAL (WITH USB ADAPTER AND CABLE)

Our most popular BASIC Stamp microcontroller is the BS2-IC module. Widely used in education, hobby, and industry, this module has enough program space, execution speed, and I/O pins for many applications. Now featured with the What's a Microcontroller curriculum and parts kit, this Starter Kit has our highest recommendation. The Discovery Kit is an incredible value!

### Build over 40 Hands On Projects

With the latest edition of this kit, you will receive the What's a Microcontroller? (WAM) parts and text making the Discovery Kit a bona fide "Getting Started" kit. With the WAM kit you'll get your feet wet through a series of over 40 activities designed to provide you with the best possible introduction to the world of BASIC Stamp modules. The text contains clear explanations, defines electronics terms in a friendly manner, and most importantly builds your confidence so you can start building your own electronics inventions.



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Parallax Part No.	Description	Price Each
619-EDSTR-KIT	27207	Basic Stamp Discovery Kit Serial with USB Adapter	
619-27807	27807	Basic Stamp Discovery Kit USB	

## UNDERSTANDING SIGNALS PARTS AND TEXT/PARALLAX OSCILLOSCOPE

The Understanding Signals Parts and Text Kit adds a 144-page student guide and many electronic components to the Parallax USB Oscilloscope. Learn how to generate, view, and measure a variety of wave forms. Each activity includes a BASIC Stamp®-controlled example circuit and code, directions for configuring the oscilloscope and placing the probes, and screen-captures of the Parallax USB Software interface displaying the signal.



A Board of Education with a BASIC Stamp 2 or a HomeWork Board is needed to run the experiments in this kit.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Parallax Part No.	Description	Price Each
619-28119	28119	Understanding Signals Parts and Text	
619-28014	28014	Parallax Oscilloscope	

## BASIC STAMP ACCESSORIES

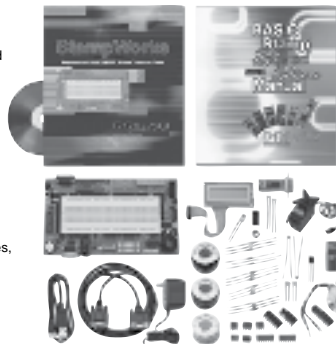
Launch yourself into the Accessories Portal and select add on products such as sensors, Application Modules, RF devices, lab tools, and other items to round out your project or application. If you already have a BASIC Stamp® microcontroller or Javelin Stamp™ module and development board, you may now take your project to the next level. There is a wide array of accessories for the BASIC Stamp microcontroller.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Parallax Part No.	Description	Price Each
619-SX-SXTECH	45180	SX Tech Tool Kit	
619-SX20AC/SS-G	SX20AC/SS-G	SX Microcontroller SX20AC/SS-G	
619-SX28AC/SS-G	SX28AC/SS-G	SX Microcontroller SX28AC/SS-G	
619-SX48BD-G	SX48BD-G	SX Microcontroller SX48BD-G	
619-SX28AC/DP-G	SX28AC/DP-G	SX Microcontroller SX28AC/DP-G	
619-SX-BLITZ	45170	SX Blitz programmer	
619-45214	45214	SX Key Programmer	
619-45205	45205	SX Tech Board	
619-45302	45302	SX28 Proto Board	
619-45300	45300	SX48 Proto Board	

## STAMPWORKS EXPERIMENT KIT

It's easy to get started micro-controlling your world with StampWorks. The StampWorks manual includes 35 experiments based on the BASIC Stamp® 2 microcontroller and the Professional Development Board (included). StampWorks gives you the hardware, the electrical components and, most importantly, the know-how to become a confident embedded programmer. Working your way through StampWorks you will learn about efficient embedded design, connecting circuits and "smart" sensors to the BASIC Stamp, adding computer control to your projects, and "Power PBASIC" programming techniques.



After you've worked your way through StampWorks you'll be able to: flash LEDs, use 7-segment and LCD displays, monitor one or several push-buttons or switches, add sounds and sound effects to your projects, build a simple light-controlled Theremin, control servos and stepper motors, measure temperature, voltage, and so much more! When you are finished, you will be able to write your own BASIC Stamp programs to control your hobby, engineering, and student projects using a variety of electronic circuits - and you'll be able to do it with the confidence.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Parallax Part No.	Description	Price Each
619-27297	27297	StampWorks Experiment Kit	
619-28138	28138	Professional Development Board Serial	

## SX TECH TOOL KIT/ SX CHIPS/ PROGRAMMERS AND PROTO BOARDS

The popular SX Tech Tool Kit is an excellent starting point to get you developing SX projects with Parallax's SX-Key programming tool. Upon receiving the kit, you will be able to program SX chips within the hour. A power supply is not included.



The SX-Key is Parallax's primary development tool for the SX line of microcontrollers, supporting every chip that is commercially available. Using the free SX-Key software, the SX-Key programming tool can program SX chips in-system and perform in-circuit source-level debugging. Also at the user's fingertips is an on-board programmable clock. The frequency output of this clock is adjusted from the software with a slider bar between 400kHz and 100MHz. The software operates on Win98/NT/2K/XP platforms.



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Parallax Part No.	Description	Price Each
619-28015	28015	PING))) Ultrasonic Sensor	
619-28146	28146	Parallax GPS Receiver Module	
619-900-00008	900-00008	Parallax (Futaba) Continuous Rotation Servo	
619-900-00005	900-00005	Parallax (Futaba) Standard Servo	
619-28028	28028	Sensor Sampler Kit	
619-28017	28017	Memsic 2125 Dual-axis Accelerometer	
619-27977	27977	Parallax 2x16 Serial LCD (Backlit)	
619-29123	29123	Hitachi HM55B Compass Module	
619-28180	28180	433 MHz Transceiver Package	
619-30013	30013	Parallax Internet Netburner Kit	
619-28031	28031	Parallax USB to Serial (RS-232) Adapter with Cable	
619-27979	27979	Parallax 4x20 Serial LCD (Backlit)	
619-28302	28302	TCS230-DB Color Sensor	
619-28026	28026	Hitachi H48C Tri-Axis Accelerometer Module	
619-28018	28018	Sensirion Temperature/Humidity Sensor	
619-32390	32390	RFID Reader Module and Tag Sampler Kit	
619-555-28027	555-28027	PIR Sensor	
619-29144	29144	HB-25 Motor Controller	