

## Stamp Specifications (revised 12/01)

Released Products	Rev.D / BS1-IC	BS2-IC	BS2e-IC
Package	PCB w/Proto / 14-pin SIP	24-pin DIP	24-pin DIP
Package Size (L x W x H)	2.5" x 1.5" x .5" / 1.4" x .6" x .1"	1.2" x 0.6" x 0.4"	1.2" x 0.6" x 0.4"
Environment	0° - 70° C* (32° - 158° F) **	0° - 70° C* (32° - 158° F) **	0° - 70° C* (32° - 158° F) **
Microcontroller	Microchip PIC16C56c	Microchip PIC16C57c	Scenix SX28AC
Processor Speed	4 MHz	20 MHz	20 MHz
Program Execution Speed	~2,000 instructions/sec.	~4,000 instructions/sec.	~4,000 instructions/sec.
RAM Size	16 Bytes (2 I/O, 14 Variable)	32 Bytes (6 I/O, 26 Variable)	32 Bytes (6 I/O, 26 Variable)
Scratch Pad RAM	N/A	N/A	64 Bytes
EEPROM (Program) Size	256 Bytes, ~80 instructions	2K Bytes, ~500 instructions	8 x 2K Bytes, ~4,000 inst.
Number of I/O pins	8	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial
Voltage Requirements	5 - 15 vdc	5 - 15 vdc	5 - 12 vdc
Current Draw @ 5V	2mA Run / 20µA Sleep	8 mA Run / 100 µA Sleep	20 mA Run / 100 µA Sleep
Source / Sink Current per I/O	20 mA / 25 mA	20 mA / 25 mA	30 mA / 30 mA
Source / Sink Current per unit	40 mA / 50 mA	40 mA / 50 mA per 8 I/O pins	60 mA / 60 mA per 8 I/O pins
PBASIC Commands	32	36	39
PC Programming Interface	Parallel Port	Serial Port (9600 baud)	Serial Port (9600 baud)
DOS Text Editor	STAMP.EXE	STAMP2.EXE	STAMP2E.EXE
Windows Text Editor	N/A	Stampw.exe (v1.04 and up)	Stampw.exe (v1.096 and up)

Released Products	BS2sx-IC	BS2p24 -IC	BS2p40 -IC
Package	24-pin DIP	24-pin DIP	40-pin DIP
Package Size (L x W x H)	1.2" x 0.6" x 0.4"	1.2" x 0.6" x 0.4"	2.1" x 0.6" x 0.4"
Environment	0° - 70° C* (32° - 158° F) **	0° - 70° C* (32° - 158° F) **	0° - 70° C* (32° - 158° F) **
Microcontroller	Scenix SX28AC	Scenix SX48AC	Scenix SX48AC
Processor Speed	50 MHz	20 MHz Turbo	20 MHz Turbo
Program Execution Speed	~10,000 instructions/sec.	~12,000 instructions/sec.	~12,000 instructions/sec.
RAM Size	32 Bytes (6 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)
Scratch Pad RAM	64 Bytes	128 Bytes	128 Bytes
EEPROM (Program) Size	8 x 2K Bytes, ~4,000 inst.	8 x 2K Bytes, ~4,000 inst.	8 x 2K Bytes, ~4,000 inst.
Number of I/O pins	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	32 + 2 Dedicated Serial
Voltage Requirements	5 - 12 vdc	5 - 12 vdc	5 - 12 vdc
Current Draw @ 5V	60 mA Run / 200 µA Sleep	40 mA Run / 400 µA Sleep	40 mA Run / 400 µA Sleep
Source / Sink Current per I/O	30 mA / 30 mA	30 mA / 30 mA	30 mA / 30 mA
Source / Sink Current per unit	60 mA / 60 mA per 8 I/O pins	60 mA / 60 mA per 8 I/O pins	60 mA / 60 mA per 8 I/O pins
PBASIC Commands	39	55	55
PC Programming Interface	Serial Port (9600 baud)	Serial Port	Serial Port
DOS Text Editor	STAMP2SX.EXE	STAMP2P.EXE	STAMP2P.EXE
Windows Text Editor	Stampw.exe (v1.091 and up)	Stampw.exe (v1.1 and up)	Stampw.exe (v1.1 and up)

\* Industrial Models Available - Environment is -40° - 85° C (-40° - 185° F)\*\*

\*\* 70% Non-Condensing Humidity