

## Stamp Specifications (revised 09/02)

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	BS2p24 -IC	BS2p40 -IC	BS2pe-IC
Package	24-pin DIP	40-pin DIP	24-pin DIP
Package Size (L x W x H)	1.2" x 0.6" x 0.4"	2.1" 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	Scenix SX48AC	Scenix SX48AC	Uicom SX48AC
Processor Speed	20 MHz Turbo	20 MHz Turbo	8 MHz Turbo
Program Execution Speed	~12,000 instructions/sec.	~12,000 instructions/sec.	~6000/sec.
RAM Size	38 Bytes (12 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)
Scratch Pad RAM	128 Bytes	128 Bytes	128 Bytes
EEPROM (Program) Size	8 x 2K Bytes, ~4,000 inst.	8 x 2K Bytes, ~4,000 inst.	16 x 2K Bytes (16 K for source)
Number of I/O pins	16 + 2 Dedicated Serial	32 + 2 Dedicated Serial	16 + 2 Dedicated Serial
Voltage Requirements	5 - 12 vdc	5 - 12 vdc	5 - 12 vdc
Current Draw @ 5V	40 mA Run / 400 µA Sleep	40 mA Run / 400 µA Sleep	15mA Run / 60µA 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	55	55	55
PC Programming Interface	Serial Port	Serial Port	Serial Port
DOS Text Editor	STAMP2P.EXE	STAMP2P.EXE	N/A
Windows Text Editor	Stampw.exe (v1.1 and up)	Stampw.exe (v1.1 and up)	Stampw.exe (v1.33 and up)

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

\*\* 70% Non-Condensing Humidity

<b>BS2sx-IC</b>
24-pin DIP
1.2" x 0.6" x 0.4"
0° - 70° C* (32° - 158° F) **
Scenix SX28AC
50 MHz
~10,000 instructions/sec.
32 Bytes (6 I/O, 26 Variable)
64 Bytes
8 x 2K Bytes, ~4,000 inst.
16 + 2 Dedicated Serial
5 - 12 vdc
60 mA Run / 200 µA Sleep
30 mA / 30 mA
60 mA / 60 mA per 8 I/O pins
39
Serial Port (9600 baud)
STAMP2SX.EXE
Stampw.exe (v1.091 and up)

<b>Javelin Stamp</b>
24-pin DIP
1.24" x 0.60" x 0.45"
0° - 70° C* (32° - 158° F) **
Ubicom SX48AC
25 MHz Turbo
~8,500 instructions/sec. ***
32768 Bytes
N/A
32768 Bytes
16
5 vdc (reg), 6-24 vdc (unreg)
60mA Run / 13µA Sleep
30 mA / 30 mA
60 mA / 60 mA per 8 I/O pins
0 (Java)
Serial Port
N/A
Javelin Stamp IDE