

Enter the world of the **C Stamp™** microcontroller module. **C Stamp** modules are micro-controllers (self contained single chip computers) that are designed for use in a wide variety of applications. Projects that form an embedded system, meaning that they have some level of intelligence derived from hardware-software interaction, can use a **C Stamp** module as the controller.

The **C Stamp** offers superior features when compared to the BASIC Stamp® for **LESS THAN HALF THE PRICE!** Some of these features are more pins, more memory, and more speed. These are brand new, fully tested, factory direct **C Stamp** modules.

Software and project development with the **C Stamp** is easy, and it is done with professional tools. The **C Stamp** uses a subset of the standard C programming language called **WC** that is easier and more powerful than PBASIC. Its power is derived from **A-WIT** provided commands, standard function calls, and software. All software is provided at no extra charge. Some of the software features of the **C Stamp** system that are not available in the BASIC Stamp® are floating point numbers support, unlimited nesting, and recursion. Well thought out and pedagogically sound examples developed by College professors make sure that getting started with the **C Stamp** is a powerful and enjoyable experience.

#### TELEPHONE AND PURCHASING INFO

TELEPHONE: (800) 985-AWIT  
EMAIL: sales@a-wit.com, info@a-wit.com  
WEB: www.c-stamp.com

656 Ironwood Drive.  
Williamstown, NJ 08094

**A-WIT**

Technologies, Inc.



*... a passion for execution ...*

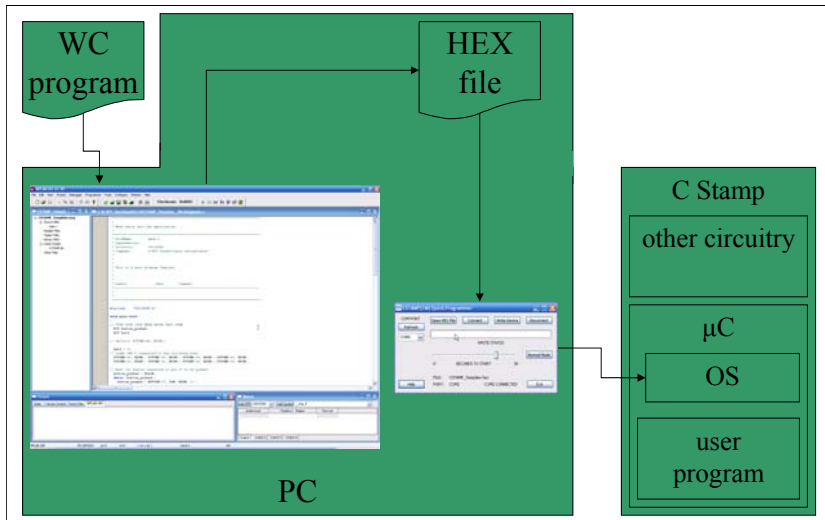
**C Stamp™**



[www.c-stamp.com](http://www.c-stamp.com)

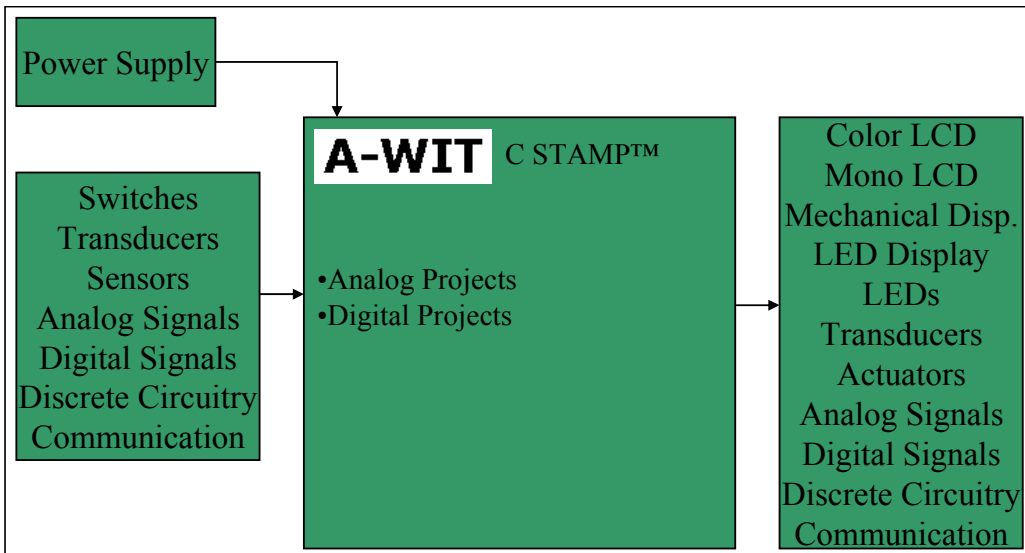
## PROGRAM DEVELOPMENT FLOW WITH THE C STAMP

Developing programs and projects with the C Stamp is easy. Simply input your WC program into the professional Integrated Development Environment (IDE), and compile into a HEX file. Then use the programming software to download your program to the C Stamp. Your program can then be executed in the C Stamp anywhere.



## BOARDS OF LEARNING (BOLs)

Have a BOL! The C Stamp is complemented by boards and kits that support all kinds of projects; from fundamental analog and digital circuit design and electronics, to control, communications, graphics, robotics, and mechatronics.



## C Stamp™ vs. BASIC Stamp® (1) (2)

Feature/Attributes	BS2p40	C Stamp
PACKAGE	40-pin DIP	48-pin DIP
PACKAGE SIZE (L x W x H)	2.1" x 0.6" x 0.4"	2.4" x 1.0" x 0.4"
ENVIRONMENT	0 to 70 deg. C (32 to 158 deg. F)	-40 to 85 deg. C (-40 to 185 deg. F)
MICROCONTROLLER	Ubcicom SX48AC	MICROCHIP PIC18F6520
PROCESSOR SPEED	20 MHz Turbo	40 MHz
PROGRAM EXECUTION SPEED	~12,000 instructions/sec.	~10,000,000 instructions/sec.
RAM SIZE	38 Bytes (12 I/O, 26 Variable)	2K Bytes
SCRATCH PAD RAM	128 Bytes	2K Bytes
PROGRAM MEMORY SIZE	8 x 2K Bytes, ~4,000 inst.	32K Bytes, ~16,000 inst.
NUMBER OF I/O PINS	32 + 2 Dedicated Serial	41 + 2 Dedicated Serial
VOLTAGE REQUIREMENTS	5 - 12 V DC	5 - 24 V DC
CURRENT DRAW @ 5V	40 mA Run / 350 µA Sleep	<b>19 mA Run / 0.7 µA Sleep</b>
SOURCE/SINK CURRENT PER I/O	30 mA / 30 mA	25 mA / 25 mA
SOURCE/SINK CURRENT PER MODULE	60 mA / 60 mA per 8 I/O pins	100 mA / 100 mA per 4 I/O pins
PC PROGRAMMING INTERFACE	Serial (9600 baud)	Serial (57600 baud)
C STAMP™ INTEGRATED PROGRAMMING ENVIRONMENT	Stampw.exe (V1.1 and up)	MPLAB IDE (v7.22 and up)
EEPROM (DATA) SIZE		1K Byte
INTERRUPTS		4
DIGITAL TO ANALOG CONVERTERS		2 channels (10 bits)
OTHER COMMUNICATION INTERFACES		3-wire SPI™, I²C Master and Slave
PARALLEL SLAVE PORT		8 bits
ANALOG TO DIGITAL CONVERSION		12 channels (10 bits)
ANALOG COMPARATORS		2

## Pricing<sup>(3)</sup> (in US \$, quantity of 1)

	A-WIT	Parallax*
Stamp	44.49	89.00
KIT	35.36	N/A
µC 101 **	63.48	89.00
BOLs	21.82 ~ 99.99	N/A

\* Parallax does not include Power Supply<sup>(4)</sup>, A-WIT DOES!  
 \*\* Microcontroller fundamentals board. Similar to Parallax' BS2p24/40 Demo Board, but BETTER. BETTER than Parallax' \$65.95 BOE.

### NOTES:

- (1) BASIC Stamp is a Registered Trade Mark of Parallax, Inc.
- (2) BS2p40 features are according to Parallax' web site on the day this document was authored.
- (3) Parallax' pricing is according to Parallax' web site on the day this document was authored. A-WIT Technologies, Inc. reserves the right to change prices without notice.
- (4) According to Parallax' web site on the day this document was authored.