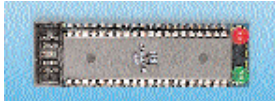
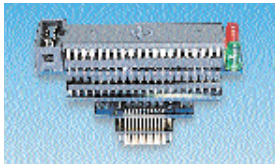


8-Bit Microprocessor ICs — continued

8051/AVR Socket Stealer



795-252



795-264

The Socket Stealer Module adds In-System Programmability to existing hardware by simply plugging into the 40-pin or 40-pin microcontroller socket. For 8051 devices the microcontroller is replaced with an Atmel 89S8252 which is then plugged into the Socket Stealer. For AVR devices the existing microcontroller is plugged into the Socket Stealer. Future software revisions can be made without disturbing the microcontroller by simply connecting a Micro-ISP or Activ8r programmer to the ISP header of the Socket Stealer and reprogram in-system.

Features

- Adds In-System programming to existing non-ISP circuit board designs
- Ideal for code development purposes, allowing firmware to be developed and tested quicker and more easily
- Isolates MISO, MOSI and SCK microcontroller pin from target circuit during programming avoiding any contention problems

Device Support

Atmel AVR - Atmel AT90S8515/4414
8051 - Atmel AT89S8252



SEM760

	Order Code	Price Each
SS-89S252-P Dual In line 40-pin Socket Stealer (8051)	795-252	
SS-89S252-J PLCC 44-pin Socket Stealer (8051)	795-264	
SS-89S Dual In Line 20-pin Socket Stealer (8051)	120-996	
SS-90S8515-P Dual In Line Socket Stealer (AVR)	302-2365	
SS-90S8515-J PLCC 44-pin Socket Stealer (AVR)	303-1068	

Atmel 90S 'AVR' Microcontrollers

Device	FLASH memory	EEPROM memory	Internal SRAM	ISP	I/O No	On-chip RC Osc	8-bit Timer	16-bit Timer	WD Timer	Full duplex UART	SPI port H/W	PWM dual 8, 9 or 10-bit	On-chip comparator	Fosc(max) @ 5V
90S1200	1Kbytes	64bytes	NONE	YES	15	YES	1		YES				YES	12MHz
90S2323	2Kbytes	128bytes	128	YES	5	YES	1		YES	YES		YES	YES	10MHz
90S2313	2Kbytes	128bytes	128	YES	15		1		YES	YES		YES	YES	10MHz
90S4414	4Kbytes	256bytes	256	YES	32		1	1	YES	YES		YES	YES	8MHz
90S8515	8Kbytes	512bytes	512	YES	32		1	1	YES	YES		YES	YES	8MHz

SEM455

	Mftr.	Pins	Description
90S1200	ATM	20	8-bit CMOS MCU.....
90S1200	ATM	20	8-bit CMOS MCU.....
90S1200	ATM	20	8-bit CMOS MCU.....
90S2313	ATM	20	8-bit CMOS MCU.....
90S2313	ATM	20	8-bit CMOS MCU.....
90S2343	ATM	8	8-bit CMOS MCU.....
90S2343	ATM	8	8-bit CMOS MCU.....
90S4414	ATM	40	8-bit CMOS MCU.....
90S4414	ATM	40	8-bit CMOS MCU.....

Mftrs. List No.	Order Code	Price Each			
		1+	10+	100+	250+
AT90S1200-12PC	690-752				
AT90S1200-12SC	SMD 690-934				
AT90S1200-16SC	SMD 795-276				
AT90S2313-10PC	111-454				
AT90S2313-10SC	SMD 111-466				
AT90S2343-10PC	111-430				
AT90S2343-10SC	SMD 111-442				
AT90S4414-8JC	SMD 111-480				
AT90S4414-8PC	111-478				
AT90S8515-8AI	SMD 343-6767				
AT90S8515-8JC	SMD 111-508				
AT90S8515-8PC	111-491				
AT90S8535-8JC	SMD 120-959				
AT90S8535-8PC	120-960				
ATMEGA103-6AC	SMD 120-972				
ATMEGA603-6AC	SMD 120-984				

Atmel 90s 'AVR' Microcontrollers

90S8515	ATM	44	8-bit CMOS MCU. (TQFP)
90S8515	ATM	40	8-bit CMOS MCU.....
90S8515	ATM	40	8-bit CMOS MCU.....
90S8535	ATM	44	8-bit MCU, 8K FLASH PEROM, 512b RAM, 32 I/O lines - 8MHz
90S8535	ATM	40	8-bit MCU, 8K FLASH PEROM, 512b RAM, 32 I/O lines - 8MHz
103	ATM	64	8-bit MCU, 128K FLASH PEROM, 4Kb RAM, 3 timers, 10-bit ADC, SPI, comparator, RTC-6MHz
603	ATM	64	8-bit MCU, 64K FLASH PEROM, 4Kb RAM, 3 timers, 10-bit ADC, SPI, comparator, RTC-6MHz

Micro-ISP Series IV - Atmel Microcontroller ISP System



This CE compliant programmer supports In-System Programming (ISP) of the Atmel 89S (8051), 90S (AVR) and ATmega (AVR) FLASH microcontroller families. The programmer connects to any standard PC serial port and comes complete with a 10-way serial programming cable which connects to the user target system. Programming is via a 3-wire SPI bus plus control of the microcontroller RESET line.

Features:

- Programs Atmel 89S (8051), 90S (AVR) and ATmega (AVR) microcontrollers In-System

- Standard version operates with a supply voltage range of 4.6V to 6.0V. Low Voltage version operates with a supply voltage range of 3.0V to 6.0V
- Connects to a PC serial (COM) port
- Serial Programming ribbon cable connects to user target system
- Obtains power from user target system
- Meridian for Windows - Programmer interface software (compatible with Win 3.1, 95, 98 and NT)
- Field upgradeable programmer firmware

Device Support

Atmel AVR - AT90S1200(A), AT90S2313, AT90S2323, AT90LS2323, AT90S2343, AT90LS2343, AT90S4414, AT90S8515, AT90S4434, AT90LS4434, AT90S8535, AT90LS8535, ATmega103(L), ATmega603(L)

Atmel 8051 - AT89S8252, AT89LS8252, AT89S53, AT89LS53

SEM759

UIISP-S4 Standard Micro-ISP Serial Programming System	Order Code 302-2286	each
UIISP-LV4 Low Voltage Micro-ISP Serial Programming System	Order Code 302-2298	each

AVR Professional Starter System



This CE compliant starter system provides a comprehensive suite of development tools for the Atmel AVR RISC microcontroller family. The system hardware comprises of a combined parallel and serial device programmer, feature-packed evaluation module, In-System Programming (ISP) cable and mains power supply. Also included is a powerful software Integrated Development Environment (IDE) featuring an editor, AVR Macro Assembler, AVR BASIC LITE compiler and software simulator. Sample programs are supplied to

help the developer to quickly become familiar with the AVR microcontroller family. It is possible to download code from the IDE straight to the sample AT90S1200 microcontroller fitted in the evaluation module without removing the device from the socket.

Features:

- Programmer supports parallel and In-System Programming (ISP) of Atmel 90S (AVR) RISC microcontrollers
- Evaluation module supplied features 8/20/40 pin microcontroller sockets, LEDs, switches, serial communications etc.
- Integrated Development Environment (IDE) including editor, BASIC compiler (restricted to 1Kbytes code) assembler and software simulator
- Programmer/Evaluation module connect to PC serial (COM) port
- Meridian for Windows-Programmer Interface Software (compatible with Win 3.11, 95 and NT)
- Field upgradeable programmer firmware
- CE compliant

Device Support:

AT90S1200, AT90S2343, AT90S2313, AT90S4414, AT90S8515

SEM445