

8-Bit Microprocessor ICs - continued

Atmel AVR Microcontrollers



210723

Pins	Package	Description	Mfrs. List No.	Order Code	1+	25+	100+	+
11	8 SOIC	8-bit CMOS MCU, 1K FLASH, 6 I/O Lines - 6MHz	ATTINY11-6SI	361-7970	146.00	106.00	95.00	--
11	8 DIL	8-bit CMOS MCU, 1K FLASH, 6 I/O Lines - 6MHz	ATTINY11-6PI	361-7981	76.00	55.00	50.00	--
12	8 DIL	8-bit CMOS MCU, 1K FLASH, 6 I/O Lines - 8MHz	ATTINY12-8PI	361-8006	141.00	102.00	92.00	--
13	8 DIL	8-bit CMOS MCU, 1K FLASH, 64byte RAM 6 I/O Lines - 20MHz	ATTINY13-20PU	917-1550	102.00	78.00	71.00	--
13	8 SOIC	8-bit CMOS MCU, 1K FLASH, 64byte RAM 6 I/O Lines - 20MHz	ATTINY13-20SU	917-1568	102.00	78.00	71.00	--
13	8 DIL	8-bit CMOS MCU, 1K FLASH, 64byte RAM 6 I/O Lines - 10MHz	ATTINY13V-10PU	917-1576	107.00	81.00	74.00	--
13	8 SOIC	8-bit CMOS MCU, 1K FLASH, 64byte RAM 6 I/O Lines - 10MHz	ATTINY13V-10SU	917-1584	107.00	81.00	74.00	--
15	8 DIL	8-bit CMOS MCU, 1K FLASH, 6 I/O Lines	ATTINY15L-1PI	361-8020	149.00	108.00	97.00	--
26	20 DIL	8-bit CMOS MCU, 2K FLASH, 128bytes RAM, 32 I/O Lines, 16MHz	ATTINY26-16PU	917-1630	162.00	122.00	112.00	--
26	20 SOIC	8-bit CMOS MCU, 2K FLASH, 128bytes RAM, 32 I/O Lines, 16MHz	ATTINY26-16SU	917-1649	162.00	122.00	112.00	--
26	20 DIL	8-bit CMOS MCU, 2K FLASH, 128bytes RAM, 32 I/O Lines, 8MHz	ATTINY26L-8PU	917-1657	171.00	130.00	119.00	--
26	20 SOIC	8-bit CMOS MCU, 2K FLASH, 128bytes RAM, 32 I/O Lines, 8MHz	ATTINY26L-8SU	917-1665	171.00	130.00	119.00	--
2313	20 DIL	8-bit CMOS MCU, 2K FLASH, 128bytes RAM, 18 I/O Lines, 20MHz	ATTINY2313-20PU	917-1592	140.00	106.00	97.00	--
2313	20 SOIC	8-bit CMOS MCU, 2K FLASH, 128bytes RAM, 18 I/O Lines, 20MHz	ATTINY2313-20SU	917-1606	140.00	106.00	97.00	--
2313	20 DIL	8-bit CMOS MCU, 2K FLASH, 128bytes RAM, 18 I/O Lines, 10MHz	ATTINY2313V-10PU	917-1614	150.00	114.00	104.00	--
2313	20 SOIC	8-bit CMOS MCU, 2K FLASH, 128bytes RAM, 18 I/O Lines, 10MHz	ATTINY2313V-10SU	917-1622	150.00	114.00	104.00	--
8	32 TQFP	8-bit CMOS MCU, 8K FLASH, 1kbytes RAM, 23 I/O Lines, 16MHz (IND TEMP)	ATMEGA8-16AU	917-1371	184.00	139.00	128.00	--
8	28 DIL	8-bit CMOS MCU, 8K FLASH, 1kbytes RAM, 23 I/O Lines, 16MHz (IND TEMP)	ATMEGA8-16PU	917-1380	184.00	139.00	128.00	--
8	32 TQFP	8-bit CMOS MCU, 8K FLASH, 1kbytes RAM, 23 I/O Lines, 8MHz (IND TEMP)	ATMEGA8L-8AU	917-1525	190.00	144.00	132.00	--
8	28 DIL	8-bit CMOS MCU, 8K FLASH, 1kbytes RAM, 23 I/O Lines, 8MHz (IND TEMP)	ATMEGA8L-8PU	917-1533	190.00	144.00	132.00	--
16	44 TQFP	8-bit CMOS MCU, 16K ISP FLASH, 1Kbytes RAM, 32 I/O Lines, 8MHz	ATMEGA16L-8AU	917-1258	380.00	288.00	264.00	--
16	40 DIL	8-bit CMOS MCU, 16K ISP FLASH, 1Kbytes RAM, 32 I/O Lines, 8MHz	ATMEGA16L-8PU	917-1266	380.00	288.00	264.00	--
16	44 TQFP	8-bit CMOS MCU, 16K ISP FLASH, 1Kbytes RAM, 32 I/O Lines, 16MHz	ATMEGA16-16AU	917-1134	372.00	282.00	258.00	--
16	40 DIL	8-bit CMOS MCU, 16K ISP FLASH, 1Kbytes RAM, 32 I/O Lines, 16MHz	ATMEGA16-16PU	917-1142	372.00	282.00	258.00	--
32	44 TQFP	8-bit CMOS MCU, 32K FLASH, 2 kbytes RAM, 32 I/O Lines, 8MHz	ATMEGA32L-8AU	917-1290	505.00	383.00	351.00	--
32	40 DIL	8-bit CMOS MCU, 32K FLASH, 2 kbytes RAM, 32 I/O Lines, 8MHz	ATMEGA32L-8PU	917-1304	505.00	383.00	351.00	--
32	44 TQFP	8-bit CMOS MCU, 32K FLASH, 2kbytes RAM, 32 I/O Lines, 16MHz	ATMEGA32-16AU	917-1274	497.00	376.00	345.00	--
32	40 DIL	8-bit CMOS MCU, 32K FLASH, 2kbytes RAM, 32 I/O Lines, 16MHz	ATMEGA32-16PU	917-1282	497.00	376.00	345.00	--
48	32 TQFP	8-bit CMOS MCU, 8K FLASH, 512 bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA48-20AU	917-1312	166.00	126.00	116.00	--
48	28 DIL	8-bit CMOS MCU, 4K FLASH, 512 bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA48-20PU	917-1320	166.00	126.00	116.00	--
48	32 TQFP	8-bit CMOS MCU, 4K FLASH, 512 bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA48V-10AU	917-1339	173.00	131.00	120.00	--
48	28 DIL	8-bit CMOS MCU, 4K FLASH, 512 bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA48V-10PU	917-1347	173.00	131.00	120.00	--
64	64 TQFP	8-bit CMOS MCU, 64K FLASH, 4kbytes RAM, 32 I/O Lines, 16MHz	ATMEGA64-16AU	917-1355	741.00	561.00	514.00	--
64	64 TQFP	8-bit CMOS MCU, 64K FLASH, 4kbytes RAM, 32 I/O Lines, 8MHz	ATMEGA64L-8AU	917-1363	752.00	570.00	522.00	--
88	32 TQFP	8-bit CMOS MCU, 8K FLASH, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA88-20AU	917-1487	199.00	151.00	138.00	--
88	28 DIL	8-bit CMOS MCU, 8K FLASH, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA88-20PU	917-1495	199.00	151.00	138.00	--
88	32 TQFP	8-bit CMOS MCU, 8K FLASH, 1K bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA88V-10AU	917-1509	205.00	156.00	143.00	--
88	28 DIL	8-bit CMOS MCU, 8K FLASH, 1K bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA88V-10PU	917-1517	205.00	156.00	143.00	--
128	64 TQFP	8-bit CMOS MCU, 128K FLASH, 4K bytes RAM, 53 I/O Lines, 8MHz (IND TEMP)	ATMEGA128L-8AU	917-1126	942.00	714.00	654.00	--
128	64 TQFP	8-bit CMOS MCU, 128K FLASH, 4K bytes RAM, 53 I/O Lines, 16MHz (IND TEMP)	ATMEGA128-16AU	917-1118	912.00	691.00	633.00	--
162	44 TQFP	8-bit CMOS MCU, 16K FLASH, 1K bytes RAM, 35 I/O Lines, 16MHz (IND TEMP)	ATMEGA162-16AU	917-1150	386.00	293.00	268.00	--
162	40 DIL	8-bit CMOS MCU, 16K FLASH, 1K bytes RAM, 35 I/O Lines, 16MHz (IND TEMP)	ATMEGA162-16PU	917-1169	386.00	293.00	268.00	--
162	44 TQFP	8-bit CMOS MCU, 16K FLASH, 1K bytes RAM, 35 I/O Lines, 8MHz (IND TEMP)	ATMEGA162V-8AU	917-1177	397.00	301.00	276.00	--
162	40 DIL	8-bit CMOS MCU, 16K FLASH, 1K bytes RAM, 35 I/O Lines, 8MHz (IND TEMP)	ATMEGA162V-8PU	917-1185	397.00	301.00	276.00	--
168	32 TQFP	8-bit CMOS MCU, 16K FLASH, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA168-20AU	917-1193	361.00	273.00	251.00	--
168	28 DIL	8-bit CMOS MCU, 16K FLASH, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA168-20PU	917-1207	361.00	273.00	251.00	--
168	32 TQFP	8-bit CMOS MCU, 16K FLASH, 1K bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA168V-10AU	917-1215	374.00	283.00	260.00	--
168	28 DIL	8-bit CMOS MCU, 16K FLASH, 1K bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA168V-10PU	917-1223	374.00	283.00	260.00	--
169	64 TQFP	8-bit CMOS MCU, 16K FLASH, 1K bytes RAM, 53 I/O Lines, 16MHz (IND TEMP)	ATMEGA169-16AU	917-1231	557.00	422.00	387.00	--
169	64 TQFP	8-bit CMOS MCU, 16K FLASH, 1K bytes RAM, 53 I/O Lines, 8MHz (IND TEMP)	ATMEGA169V-8AU	917-1240	572.00	434.00	397.00	--
8515	44 TQFP	8-bit 8K ISP FLASH, 512 bytes RAM, 16MHz (IND TEMP TQFP)	ATMEGA8515-16AU	917-1398	268.00	203.00	186.00	--
8515	44 PLCC	8-bit CMOS MCU, 8K ISP FLASH, 35 I/O Lines, 16MHz	ATMEGA8515-16JC	463-8864	361.00	262.00	235.00	--
8515	40 DIL	8-bit 8K ISP FLASH, 512 bytes RAM, 16MHz (IND TEMP)	ATMEGA8515-16PU	917-1401	268.00	203.00	186.00	--
8515	44 TQFP	8-bit 8K ISP FLASH, 512 bytes RAM, 8MHz (IND TEMP)	ATMEGA8515L-8AU	917-1410	276.00	209.00	192.00	--
8515	40 DIL	8-bit 8K ISP FLASH, 512 bytes RAM, 8MHz (IND TEMP)	ATMEGA8515L-8PU	917-1428	276.00	209.00	192.00	--
8535	44 TQFP	8-bit ISP 8K Flash, 512bytes RAM 16MHZ (IND TEMP)	ATMEGA8535-16AU	917-1436	276.00	209.00	192.00	--
8535	40 DIL	8-bit ISP 8K Flash, 512bytes RAM 16MHZ (IND TEMP)	ATMEGA8535-16PU	917-1444	276.00	209.00	192.00	--
8535	44 TQFP	8-bit ISP 8K Flash, 512bytes RAM 8MHZ (IND TEMP)	ATMEGA8535L-8AU	917-1460	285.00	216.00	198.00	--
8535	40 DIL	8-bit ISP 8K Flash, 512bytes RAM 8MHZ (IND TEMP)	ATMEGA8535L-8PU	917-1479	285.00	216.00	198.00	--

Semiconductors - Integrated Circuits

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PIC Development Tools

PICSTART® Plus - Low Cost Development/Evaluation System



The PICSTART® Plus development system from Microchip provides a highly flexible low cost entry level programming tool for all of the PIC 8-bit series of microcontrollers including One Time Programmable, Erasable and FLASH devices.

The 40 way universal ZIF socket accepts device sizes from 8-pin 0.3" to 40-pin 0.6" DIL.

PICSTART Plus operates in a Windows 3.1, 95, 98, NT environment on any PC compatible machine, access to a serial port is required for communication.

The PICSTART Plus is easy-to-use and features Microchip's highly acclaimed MPLAB™ Integrated Development Environment (IDE). This features an editor, MPASM assembler and Windows based simulator which provides a comprehensive user interface with on-screen views of all used registers during program simulation.

A copy of the PICC™ LITE C compiler is included, this is limited to compile specifically for the sample PIC16F84 included with the kit.

Full documentation is included and software is supplied together with device data on CD-ROM. The development system is supplied complete with 9-way RS-232 cable, PIC16F84 device sample and a universal power supply.

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	Order Code	Price Each
PICSTART Plus Development/Evaluation system . . . .	704-740	12,136.00
Upgrade Kit for PICStart+ (UK003010) . . . . .	501-0925	1,934.00
8-pin DFN-S (MLF) adapter for PICStart+ and PRO-MATE II with AC164012 (445-666) socket module	424-1990	10,922.00

PICKit 1 FLASH Starter Kit



The PICKit 1 FLASH Starter Kit is a development kit with easy interface for programming Microchip's 8/14-pin FLASH family of microcontrollers. The kit allows for programming, evaluation and developing applications using the 8 and 14-pin FLASH PICmicros. Code development and debugging is performed using the MPLAB® Integrated Development Environment (IDE).

FEATURES:

- 3"x4.5" circuit board with snap-off prototyping board