



Memory Size (Bytes)	I/O Pins	Timer/Counters	Serial Communication	PWM Channels	A/D	Internal OSC	Clock Speed	ISP	JTAG/Debug-WIRE	VCC	Operating Temp.▲	Package	Digi-Key Part No.	Price Each				
														RAM	EEPROM	1	25	100
32K	2K	1K	1 (USART), TWI	4	8-ch/10-bit	Y	10MHz	Y	JTAG	1.8 - 5.5V	Ind.	64-QFN	ATMEGA329PV-10MU-ND◆	7.61	5.63	5.03		
													ATMEGA3250-16AU-ND◆	7.25	4.55	4.21		
													ATMEGA3250V-8AU-ND◆	7.25	4.55	4.21		
													ATMEGA3250P-20AU-ND◆	7.25	5.36	4.79		
													ATMEGA3250PV-10AU-ND◆	7.25	5.36	4.79		
													ATMEGA3290-16AU-ND◆	8.64	5.43	5.03		
													ATMEGA3290V-8AU-ND◆	8.64	5.43	5.03		
													ATMEGA3290P-20AU-ND◆	8.64	6.39	5.71		
													ATMEGA3290PV-10AU-ND◆	8.64	6.39	5.71		
													AT90CAN32-16AU-ND◆	9.70	7.17	6.40		
AT90CAN32-16MU-ND◆	9.70	7.17	6.40															
40K	2K	512	18	1/1	TWI	1	—	Y	1MHz	Y	JTAG	4.0 - 25V	Ind.	48-LOFP	ATMEGA406-1AAU-ND◆	6.45	4.05	3.75
64K	4K	2K	2 (USART), SPI, TWI	8	8-ch/10-bit	Y	16MHz	Y	JTAG	2.7 - 5.5V	Ind.	64-TQFP	ATMEGA64-16AU-ND◆	11.83	7.43	6.88		
													ATMEGA64-16MI-ND	11.93	7.49	6.94		
													ATMEGA64-16MU-ND◆	11.93	7.49	6.94		
													ATMEGA64L-8AU-ND◆	11.83	7.43	6.88		
													ATMEGA64L-8MC-ND	11.93	7.49	6.94		
													ATMEGA64L-8MU-ND◆	11.93	7.49	6.94		
													ATMEGA64L-8AU-ND◆	11.93	7.49	6.94		
													ATMEGA64L-8MU-ND◆	11.93	7.49	6.94		
													ATMEGA64L-8MU-ND◆	11.93	7.49	6.94		
													ATMEGA64L-8MU-ND◆	11.93	7.49	6.94		
													ATMEGA64L-8MU-ND◆	11.93	7.49	6.94		
													ATMEGA64L-8MU-ND◆	11.93	7.49	6.94		
	8K	4K	2K	1 (USART), SPI, TWI	6	8-ch/10-bit	Y	16MHz	Y	—	2.7 - 5.5V	Ind.	44-TQFP	ATMEGA644V-10AU-ND◆	7.76	4.87	4.51	
														ATMEGA644V-10MU-ND◆	7.87	4.94	4.58	
														ATMEGA644V-10PU-ND◆	7.87	4.94	4.58	
														ATMEGA644-20AU-ND◆	7.76	4.87	4.51	
														ATMEGA644-20MU-ND◆	7.76	4.94	4.58	
														ATMEGA644-20PU-ND◆	7.87	4.94	4.58	
														ATMEGA644P-20AU-ND◆	7.76	4.87	4.51	
														ATMEGA644P-20MU-ND◆	7.76	5.74	5.13	
														ATMEGA644P-20PU-ND◆	7.76	4.87	4.51	
														ATMEGA644PV-10AU-ND◆	7.76	5.74	5.13	
														ATMEGA644PV-10PU-ND◆	7.76	5.74	5.13	
														ATMEGA645-16AU-ND◆	9.01	5.66	5.24	
ATMEGA645-16MU-ND◆	9.12	5.72	5.30															
ATMEGA645V-8AU-ND◆	9.01	5.66	5.24															
ATMEGA645V-8MU-ND◆	9.12	5.72	5.30															
ATMEGA649-16AU-ND◆	10.99	6.90	6.39															
ATMEGA649-16MU-ND◆	11.09	6.97	6.45															
ATMEGA649V-8AU-ND◆	10.99	6.90	6.39															
ATMEGA649V-8MU-ND◆	11.09	6.97	6.45															
ATMEGA6450-16AU-ND◆	10.36	6.51	6.03															
ATMEGA6450V-8AU-ND◆	10.36	6.51	6.03															
ATMEGA6490-16AU-ND◆	12.60	7.91	7.33															
ATMEGA6490V-8AU-ND◆	12.60	7.91	7.33															
AT90CAN64-16AU-ND◆	10.34	7.65	6.83															
AT90CAN64-16MU-ND◆	10.34	7.65	6.83															
ATMEGA640-16AU-ND◆	11.80	8.73	7.80															
ATMEGA640-16CU-ND◆	11.80	8.73	7.80															
ATMEGA640V-8AU-ND◆	11.80	8.73	7.80															
ATMEGA640V-8CU-ND◆	11.80	8.73	7.80															
128K	4K	4K	2 (USART), SPI, TWI	8	8-ch/10-bit	Y	16MHz	Y	JTAG	4.5 - 5.5V	Com. Ind.	64-QFN	ATMEGA128-16MC-ND	15.05	9.45	8.75		
													ATMEGA128-16AU-ND◆	15.05	9.45	8.75		
													ATMEGA128-16MU-ND◆	15.16	9.52	8.81		
													ATMEGA128L-8AU-ND◆	15.05	9.45	8.75		
													ATMEGA128L-8MU-ND◆	15.16	9.52	8.91		
													AT90CAN128-16AU-ND◆	16.77	12.40	11.08		
	AT90CAN128-16MU-ND◆	16.77	12.40	11.08														
	8K	4K	4K	4 (USART), SPI, TWI	16	16-ch/10-bit	Y	16MHz	Y	JTAG	2.7 - 5.5V	Ind.	100-TQFP	ATMEGA1280-16AU-ND◆	15.72	11.62	10.38	
														ATMEGA1280-16CU-ND◆	15.72	11.62	10.38	
														ATMEGA1280V-8AU-ND◆	15.72	11.62	10.38	
														ATMEGA1280V-8CU-ND◆	15.72	11.62	10.38	
														ATMEGA1281-16AU-ND◆	14.36	10.62	9.49	
ATMEGA1281-16MU-ND◆														14.36	10.62	9.49		
ATMEGA1281V-8AU-ND◆	14.36	10.62	9.49															
ATMEGA1281V-8MU-ND◆	14.36	10.62	9.49															
AT90USB1286-16MU-ND◆	15.61	11.54	10.30															
AT90USB1287-16AU-ND◆	16.71	12.35	11.03															
AT90USB1287-16MU-ND◆	16.71	12.35	11.03															
AT90USB822-16MU-ND◆	3.23	2.33	2.18															
256K	8K	4K	4 (USART), SPI, TWI	16	16-ch/10-bit	Y	16MHz	Y	JTAG	4.5 - 5.5V	Ind.	100-TQFP	ATMEGA2560-16AU-ND◆	17.97	11.29	10.45		
													ATMEGA2560-16CU-ND◆	19.59	12.30	11.39		
													ATMEGA2560V-8AU-ND◆	17.97	11.29	10.45		
													ATMEGA2560V-8CU-ND◆	19.59	12.30	11.39		
ATMEGA2561-16AU-ND◆	16.99	10.67	9.88															
ATMEGA2561-16MU-ND◆	17.09	10.73	9.94															
ATMEGA2561V-8AU-ND◆	16.99	10.67	9.88															
ATMEGA2561V-8MU-ND◆	17.09	10.73	9.94															

◆ RoHS Compliant ▲ Operating Temperature: Industrial: -40°C ~ 85°C Commercial: 0°C ~ 70°C High: -40°C ~ 125°C Extended: -40°C ~ 105°C ‡ Cut Tape † Tape and Reel

### ATAVRFBKIT Ballast Demo Kit

The ATAVRFBKIT is a Dimmable Fluorescent Ballast kit which is used to demonstrate the ability of the AT90PWM2 to control all the main functions of a DALI Fluorescent Ballast. C code is provided to speed-up development time.

ATAVRFBKIT-ND ..... \$211.47

### ATAVRMC100 BLDC Motor Control

The ATAVRMC100 BLDC motor control kit includes an evaluation board, a 3-phase BLDC motor and demonstration software. Fully featured driver board for BLDC motors with hardware over-current detection. Interface for sensor and sensorless BLDC, sensor and sensorless software included. Onboard AT90PWM3 AVR microcontroller. Header connectors for external driver inputs. Onboard LIN transceiver ATA6661.

ATAVRMC100-ND ..... \$211.47

### ATAVRMC200 AC Induction Motor Control

The ATAVRMC200 is an evaluation kit dedicated to AC induction motor control. The kit includes an evaluation board and demonstration software. It allows users to quickly evaluate the capability of the AT90PWM3 AVR microcontroller to control a three phase asynchronous induction motor.

ATAVRMC200-ND ..... \$317.87

### Adapters

The AVR® ICE50 is a top-of-the-line development tool for complete in-circuit emulation of most AVR 8-bit RISC microcontrollers. The ICE50 and the AVR Studio4 user interface give the user complete control of the internal resources of the microcontroller, helping to reduce development time by making debugging easier.

ATICE50MEM-ND	ICE50 Extension Memory Card.....	\$246.05
ATICE50POD-ND	Replacement POD for ICE40, ICE50.....	\$465.50
ATADAP169_TOP-ND	Probe with Flex Cables.....	\$81.13
ATADAP128_TOP-ND	TOP Adapter Module for ATmega64.....	\$199.50
ATADAP169_TOP-ND	Personality Adapter for ATmega169.....	\$199.50
ATADAPMEGA8-ND	Personality Adapter for ATmega8.....	\$41.23
ATADAPMEGA32-ND	Personality Adapter for ATmega32.....	\$41.23
ATADAPMEGA162-ND	Personality Adapter for ATmega162.....	\$41.23
ATADAPT2313-ND	Personality Adapter for ATtiny2313.....	\$41.23
ATADAPTTEST-ND	ICE50 Adapter Test.....	\$41.23
ATADAPTINY13-ND	Personality Adapter for ATtiny13.....	\$41.23
ATADAPTINY26-ND	Personality Adapter for ATtiny26.....	\$41.23

### Programmer

Description	Digi-Key Part No.	Price Each
ISP In-System Programmer	ATAVRISP2-ND	35.91

(Continued)

More Product Available Online: [www.digkey.com](http://www.digkey.com)

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