

## ATMEGA48P-20AU



**Part Number:** [ATMEGA48P-20AU](#)  
**Manufacturer:** [Micrel / Microchip Technology](#)  
**Description:** IC MCU 8BIT 4KB FLASH 32TQFP  
**Data sheet:** [PDF ATMEGA48/88/168\(P,PV\) Summary](#)  
[PDF ATMEGA48/88/168\(P,PV\) Complete](#)

**RoHS Status:** Lead free / RoHS Compliant  
**Ship From:** Hong Kong  
**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

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### PRODUCT PARAMETER

<b>Part Number</b>	ATMEGA48P-20AU	<b>Manufacturer</b>	<a href="#">Micrel / Microchip Technology</a>
<b>Description</b>	IC MCU 8BIT 4KB FLASH 32TQFP	<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
<b>Quantity Available</b>	49936 pcs	<b>Data sheet</b>	<a href="#">ATMEGA48/88/168(P,PV) Summary</a> <a href="#">ATMEGA48/88/168(P,PV) Complete</a>
<b>Category</b>	<a href="#">Integrated Circuits (ICs)</a>	<b>Voltage - Supply (Vcc/Vdd)</b>	2.7 V ~ 5.5 V
<b>Supplier Device Package</b>	32-TQFP (7x7)	<b>Speed</b>	20MHz
<b>Series</b>	AVR® ATmega	<b>RAM Size</b>	512 x 8
<b>Program Memory Type</b>	FLASH	<b>Program Memory Size</b>	4KB (2K x 16)
<b>Peripherals</b>	Brown-out Detect/Reset, POR, PWM, WDT	<b>Packaging</b>	Tray
<b>Package / Case</b>	32-TQFP	<b>Other Names</b>	ATMEGA48P20AU
<b>Oscillator Type</b>	Internal	<b>Operating Temperature</b>	-40°C ~ 85°C (TA)
<b>Number of I/O</b>	23	<b>Moisture Sensitivity Level (MSL)</b>	3 (168 Hours)
<b>Manufacturer Standard Lead Time</b>	4 Weeks	<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
<b>EEPROM Size</b>	256 x 8	<b>Detailed Description</b>	AVR AVR® ATmega Microcontroller IC 8-Bit 20MHz 4KB (2K x 16) FLASH 32-TQFP (7x7)
<b>Data Converters</b>	A/D 8x10b	<b>Core Size</b>	8-Bit
<b>Core Processor</b>	AVR	<b>Connectivity</b>	I <sup>2</sup> C, SPI, UART/USART
<b>Base Part Number</b>	ATMEGA48		

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### RELATED PRODUCTS

	<b>Part#:</b> <a href="#">ATMEGA48P-20PU</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 28DIP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48A-CCUR</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32UFBGA	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48A-PU</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 28DIP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48A-CCU</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32UFBGA	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48A-MUR</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32VQFN	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48P-20MUR</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32VQFN	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48P-20AUR</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48PA-AN</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48P-20MMU</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 28VQFN	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48PA-15AZ</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA4809-XPRO</a> <b>Description:</b> ATMEGA4809 XPLAINED PRO EVAL BRD	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48PA-15MZ</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32QFN	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48A-AUR</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48A-MU</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32VQFN	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48A-AU</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48P-20MU</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32VQFN	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48PA-ANR</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 32TQFP	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48P-20MMUR</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 28VQFN	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48A-MMHR</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 28VQFN	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>
	<b>Part#:</b> <a href="#">ATMEGA48A-MMH</a> <b>Description:</b> IC MCU 8BIT 4KB FLASH 28VQFN	<b>Manufacturers:</b> <a href="#">Micrel / Microchip Technology</a>	<a href="#">RFQ</a>

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