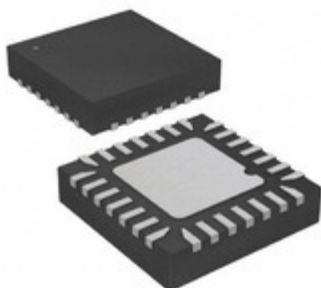


ATMEGA48PA-MMH



Images are for reference only.
See Product Specifications for product details.
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Part Number: [ATMEGA48PA-MMH](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 8BIT 4KB FLASH 28VQFN

Data sheet:  [ATmega48PA/88PA/168PA Summary](#)
 [ATmega48PA/88PA/168PA Complete](#)

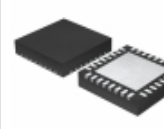
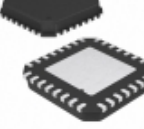
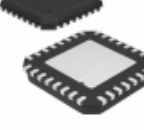
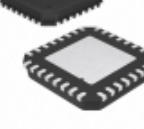
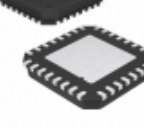
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

Shipment Way: DHL/Fedex/TNT/UPS/EMS

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PRODUCT PARAMETER			
Part Number	ATMEGA48PA-MMH	Manufacturer	Micrel / Microchip Technology
Description	IC MCU 8BIT 4KB FLASH 28VQFN	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	88820 pcs	Data sheet	ATmega48PA/88PA/168PA Summary ATmega48PA/88PA/168PA Complete
Category	Integrated Circuits (ICs)	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 5.5 V
Supplier Device Package	28-VQFN (4x4)	Speed	20MHz
Series	AVR® ATmega	RAM Size	512 x 8
Program Memory Type	FLASH	Program Memory Size	4KB (2K x 16)
Peripherals	Brown-out Detect/Reset, POR, PWM, WDT	Packaging	Tray
Package / Case	28-VFQFN Exposed Pad	Other Names	ATMEGA48PAMMH
Oscillator Type	Internal	Operating Temperature	-40°C ~ 85°C (TA)
Number of I/O	23	Moisture Sensitivity Level (MSL)	3 (168 Hours)
Lead Free Status / RoHS Status	Lead free / RoHS Compliant	EEPROM Size	256 x 8
Detailed Description	AVR AVR® ATmega Microcontroller IC 8-Bit 20MHz 4KB (2K x 16) FLASH 28-VQFN (4x4)	Data Converters	A/D 8x10b
Core Size	8-Bit	Core Processor	AVR
Connectivity	IC, SPI, UART/USART	Base Part Number	ATMEGA48
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	Part#: ATMEGA48PA-MMN Description: IC MCU 8BIT 4KB FLASH 28VQFN	Manufacturers: Micrel / Microchip Technology	RFQ
	Part#: ATMEGA48PA-PN Description: IC MCU 8BIT 4KB FLASH 28DIP	Manufacturers: Micrel / Microchip Technology	RFQ
	Part#: ATMEGA48PA-AUR Description: IC MCU 8BIT 4KB FLASH 32TQFP	Manufacturers: Micrel / Microchip Technology	RFQ
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