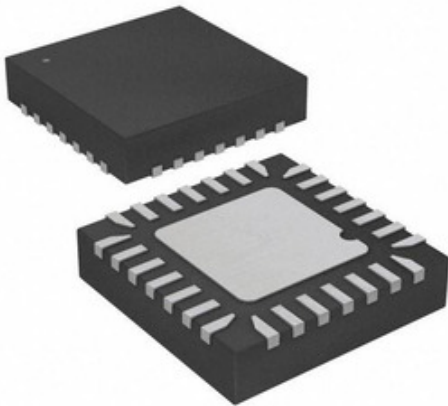




Micrel / Microchip Technology



ATMEGA48PA-MMHR

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | ATMEGA48PA-MMHR                                                                                              |
| Manufacturer/Brand: | Micrel / Microchip Technology                                                                                |
| Product description | IC MCU 8BIT 4KB FLASH 28VQFN                                                                                 |
| Datasheets:         | <a href="#">1.ATMEGA48PA-MMHR.pdf</a><br><a href="#">2.ATMEGA48PA-MMHR.pdf</a>                               |
| RoHs Status         |  Lead free / RoHS Compliant |
| Ship From           | Hong Kong                                                                                                    |
| Shipment Way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

REQUEST FOR QUOTATION

Image may be representation. See specifications for product details.

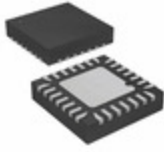
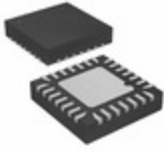
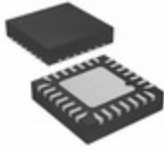
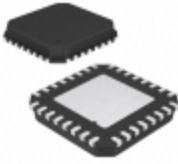
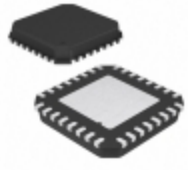
Specifications of ATMEGA48PA-MMHR

|                                  |                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------|
| PART NUMBER                      | ATMEGA48PA-MMHR                                                                  |
| MANUFACTURER                     | Micrel / Microchip Technology                                                    |
| DESCRIPTION                      | IC MCU 8BIT 4KB FLASH 28VQFN                                                     |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                       |
| DATA SHEET                       | <a href="#">1.ATMEGA48PA-MMHR.pdf</a><br><a href="#">2.ATMEGA48PA-MMHR.pdf</a>   |
| 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                        | Tape & Reel (TR)                                                                 |
| PACKAGE / CASE                   | 28-VFQFN Exposed Pad                                                             |
| OTHER NAMES                      | ATMEGA48PA-MMHR-ND<br>ATMEGA48PA-MMHRTR<br>ATMEGA48PAMMHR                        |
| 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                     | I²C, SPI, UART/USART                                                             |
| BASE PART NUMBER                 | ATMEGA48                                                                         |

Related Tags

|                                               |                                        |                                                        |
|-----------------------------------------------|----------------------------------------|--------------------------------------------------------|
| Micrel / Microchip Technology ATMEGA48PA-MMHR | ATMEGA48PA-MMHR Distributor            | ATMEGA48PA-MMHR Supplier                               |
| ATMEGA48PA-MMHR Price                         | ATMEGA48PA-MMHR Pictures               | ATMEGA48PA-MMHR Image                                  |
| ATMEGA48PA-MMHR PDF Datasheet                 | ATMEGA48PA-MMHR Download Datasheet     | ATMEGA48PA-MMHR Datasheet                              |
| ATMEGA48PA-MMHR Stock                         | Buy ATMEGA48PA-MMHR                    | Buy Micrel / Microchip Technology ATMEGA48PA-MMHR      |
| Micrel / Microchip Technology ATMEGA48PA-MMHR | Micrel / Microchip Technology Supplier | Micrel / Microchip Technology Distributor              |
| Micrel / Microchip Technology ATMEGA48PA-MMHR | Microchip Technology ATMEGA48PA-MMHR   | Roving Networks / Microchip Technology ATMEGA48PA-MMHR |

Related Products

|                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div></div> <div><b>ATMEGA48PA-MMNR</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 28VQFN<br/>In stock: Out stock<br/><div>RFQ</div></div> | <div></div> <div><b>ATMEGA48PA-MMN</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 28VQFN<br/>In stock: Out stock<br/><div>RFQ</div></div>   |
| <div></div> <div><b>ATMEGA48PA-MMNR</b><br/>Manufacturers: Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 28VQFN<br/>In stock: Out stock<br/><div>RFQ</div></div>          | <div></div> <div><b>ATMEGA48PA-CCU</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 32UFBGA<br/>In stock: Out stock<br/><div>RFQ</div></div>  |
| <div></div> <div><b>ATMEGA48PA-MMH</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 28VQFN<br/>In stock: 432 pcs<br/><div>RFQ</div></div>    | <div></div> <div><b>ATMEGA48PA-CCUR</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 32UFBGA<br/>In stock: Out stock<br/><div>RFQ</div></div> |
| <div></div> <div><b>ATMEGA48PA-MNR</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 32VQFN<br/>In stock: Out stock<br/><div>RFQ</div></div>  | <div></div> <div><b>ATMEGA48PA-CCUR</b><br/>Manufacturers: Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 32UFBGA<br/>In stock: Out stock<br/><div>RFQ</div></div>          |
| <div></div> <div><b>ATMEGA48PA-AUR</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 32TQFP<br/>In stock: Out stock<br/><div>RFQ</div></div>  | <div></div> <div><b>ATMEGA48PA-MMHR</b><br/>Manufacturers: Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 28VQFN<br/>In stock: 878 pcs<br/><div>RFQ</div></div>             |
| <div></div> <div><b>ATMEGA48PA-MNR</b><br/>Manufacturers: Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 32VQFN<br/>In stock: 302 pcs<br/><div>RFQ</div></div>             | <div></div> <div><b>ATMEGA48PA-MN</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 8BIT 4KB FLASH 32VQFN<br/>In stock: 662 pcs<br/><div>RFQ</div></div>      |