

AT91SAM7S512B-AU



Part Number: [AT91SAM7S512B-AU](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 512KB FLASH 64LQFP

Data sheet:  [AT91SAM Datasheet](#)  
 [AT91SAM Summary](#)

RoHs Status: Lead free / RoHS Compliant

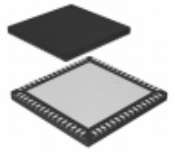
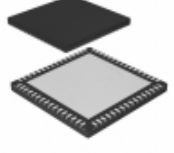
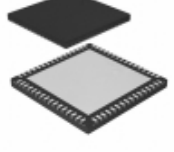
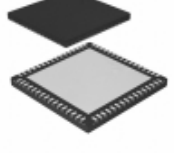
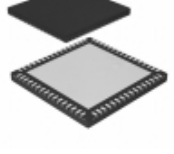
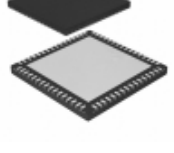
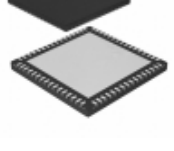
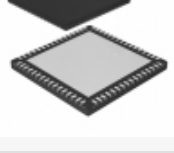
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Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |                                  |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AT91SAM7S512B-AU                           | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                         |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 512KB FLASH 64LQFP            | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                            |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9002 pcs                                   | Data sheet                       | <a href="#">AT91SAM Datasheet</a><br><a href="#">AT91SAM Summary</a>                  |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>  | Voltage - Supply (Vcc/Vdd)       | 1.65 V ~ 1.95 V                                                                       |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-LQFP (10x10)                            | Speed                            | 55MHz                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SAM7S                                      | RAM Size                         | 64K x 8                                                                               |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FLASH                                      | Program Memory Size              | 512KB (512K x 8)                                                                      |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Brown-out Detect/Reset, DMA, POR, PWM, WDT | Packaging                        | Tray                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 64-LQFP                                    | Other Names                      | AT91SAM7S512BAU                                                                       |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Internal                                   | Operating Temperature            | -40°C ~ 85°C (TA)                                                                     |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32                                         | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                         |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 16 Weeks                                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                            |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                          | Detailed Description             | ARM7® SAM7S Microcontroller IC 16/32-Bit 55MHz 512KB (512K x 8) FLASH 64-LQFP (10x10) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A/D 8x10b                                  | Core Size                        | 16/32-Bit                                                                             |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ARM7®                                      | Connectivity                     | I²C, SPI, SSC, UART/USART, USB                                                        |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | AT91SAM7S512                               |                                  |                                                                                       |
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| RELATED PRODUCTS                                                                   |                                                                                             |                                                              |                |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">AT91SAM7S64-MU-999</a><br>Description: IC MCU 32BIT 64KB FLASH 64QFN     | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">AT91SAM7S32B-AU-999</a><br>Description: IC MCU 32BIT 32KB FLASH 48LQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">AT91SAM7S32B-MU</a><br>Description: IC MCU 32BIT 32KB FLASH 48QFN        | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">AT91SAM7S321-MU-999</a><br>Description: IC MCU 32BIT 32KB FLASH 64QFN    | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">AT91SAM7S321-MU</a><br>Description: IC MCU 32BIT 32KB FLASH 64QFN        | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">AT91SAM7S512-MU</a><br>Description: IC MCU 32BIT 512KB FLASH 64QFN       | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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