

ATSAM3SD8CA-AU



Part Number: [ATSAM3SD8CA-AU](#)

Manufacturer: [Microchip Technology](#)

Description: IC MCU 32BIT 512KB FLASH 100LQFP

Data sheet:  [SAM3S8/SD8 Summary](#)

RoHs Status: Lead free / RoHS Compliant

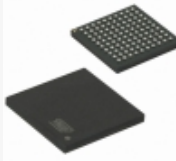
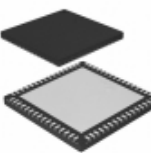
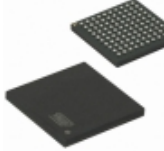
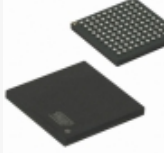
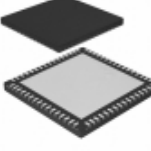
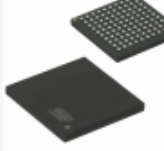
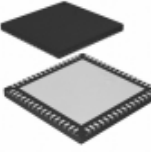
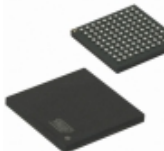
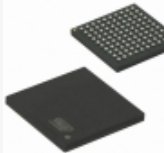
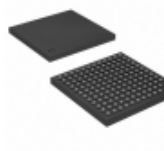
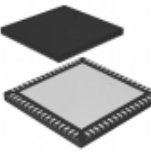
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                            |                                 |                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                             | ATSAM3SD8CA-AU                                             | Manufacturer                    | <a href="#">Microchip Technology</a>                                                          |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 512KB FLASH 100LQFP                           | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                    |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                      | 19330 pcs                                                  | Data sheet                      | <a href="#">SAM3S8/SD8 Summary</a>                                                            |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                | <a href="#">Integrated Circuits (ICs)</a>                  | Voltage - Supply (Vcc/Vdd)      | FLASH                                                                                         |
| Voltage - Breakdown                                                                                                                                                                                                                                                                                                                                                                                                                     | 100-LQFP (14x14)                                           | Series                          | SAM3S                                                                                         |
| RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                             | Tray                                                       | Reverse Recovery Time (trr)     | 64MHz                                                                                         |
| Requires                                                                                                                                                                                                                                                                                                                                                                                                                                | Brown-out Detect/Reset, DMA, I²S, POR, PWM, WDT            | Program Memory Type             | 512KB (512K x 8)                                                                              |
| Program Memory Size                                                                                                                                                                                                                                                                                                                                                                                                                     | EBI/EMI, I²C, IrDA, Memory Card, SPI, SSC, UART/USART, USB | Polarization                    | 100-LQFP                                                                                      |
| Other Names                                                                                                                                                                                                                                                                                                                                                                                                                             | ATSAM3SD8CAAU                                              | Oscillator Type                 | A/D 15x10/12b, D/A 2x12b                                                                      |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                   | -40°C ~ 85°C (TA)                                          | Operating System                | ARM® Cortex®-M3                                                                               |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                        | 3 (168 Hours)                                              | Manufacturer Standard Lead Time | 19 Weeks                                                                                      |
| Manufacturer Part Number                                                                                                                                                                                                                                                                                                                                                                                                                | ATSAM3SD8CA-AU                                             | Expanded Description            | ARM® Cortex®-M3 SAM3S Microcontroller IC 32-Bit 64MHz 512KB (512K x 8) FLASH 100-LQFP (14x14) |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                             | IC MCU 32BIT 512KB FLASH 100LQFP                           | Data SRAM Bytes                 | -                                                                                             |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.62 V ~ 3.6 V                                             | Core Size                       | 64K x 8                                                                                       |
| Controller Series                                                                                                                                                                                                                                                                                                                                                                                                                       | Internal                                                   | Connectivity                    | 32-Bit                                                                                        |
| Clock Rate                                                                                                                                                                                                                                                                                                                                                                                                                              | 79                                                         |                                 |                                                                                               |
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|  | Part#: <a href="#">ATSAM3SD8CA-CU</a><br>Description: IC MCU 32BIT 512KB FLASH 100BGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | RFQ |
|  | Part#: <a href="#">ATSAM3SD8BA-MUR</a><br>Description: IC MCU 32BIT 512KB FLASH 64QFN   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | RFQ |
|  | Part#: <a href="#">ATSAM3SD8CA-CUR</a><br>Description: IC MCU 32BIT 512KB FLASH 100BGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | RFQ |
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