

ATSAMC20E17A-AUT





Part Number: [ATSAMC20E17A-AUT](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: IC MCU 32BIT 128KB FLASH 32TQFP

Data sheet:  [SAM C20,C21 Complete](#)  
 [SAMC20 Family Datasheet Complete](#)  
 [SAMC20 Datasheet Summary](#)

RoHs Status: Lead free / RoHS Compliant

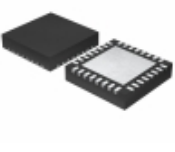
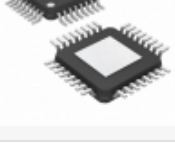
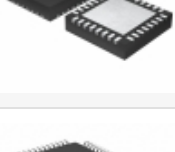
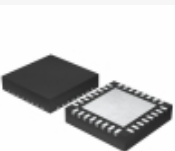
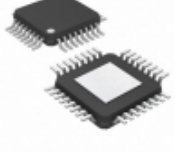
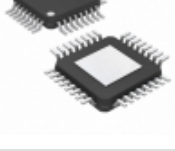
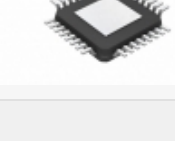
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                               |                                 |                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ATSAMC20E17A-AUT                                                                              | Manufacturer                    | <a href="#">Micrel / Microchip Technology</a>                                                                               |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | IC MCU 32BIT 128KB FLASH 32TQFP                                                               | Lead Free Status / RoHS Status  | Lead free / RoHS Compliant                                                                                                  |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 57912 pcs                                                                                     | Data sheet                      | <a href="#">SAM C20,C21 Complete</a><br><a href="#">SAMC20 Family Datasheet</a><br><a href="#">SAMC20 Datasheet Summary</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <a href="#">Integrated Circuits (ICs)</a>                                                     | Voltage - Supply (Vcc/Vdd)      | 2.7 V ~ 5.5 V                                                                                                               |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 32-TQFP (7x7)                                                                                 | Speed                           | 48MHz                                                                                                                       |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SAM C20                                                                                       | RAM Size                        | 16K x 8                                                                                                                     |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLASH                                                                                         | Program Memory Size             | 128KB (128K x 8)                                                                                                            |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Brown-out Detect/Reset, DMA, POR, WDT                                                         | Packaging                       | Tape & Reel (TR)                                                                                                            |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 32-TQFP                                                                                       | Oscillator Type                 | Internal                                                                                                                    |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -40°C ~ 85°C (TA)                                                                             | Number of I/O                   | 26                                                                                                                          |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3 (168 Hours)                                                                                 | Manufacturer Standard Lead Time | 30 Weeks                                                                                                                    |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lead free / RoHS Compliant                                                                    | EEPROM Size                     | -                                                                                                                           |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ARM® Cortex®-M0+ SAM C20 Microcontroller IC 32-Bit 48MHz 128KB (128K x 8) FLASH 32-TQFP (7x7) | Data Converters                 | A/D 10x12b                                                                                                                  |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 32-Bit                                                                                        | Core Processor                  | ARM® Cortex®-M0+                                                                                                            |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I²C, LINbus, SPI, UART/USART                                                                  |                                 |                                                                                                                             |
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| RELATED PRODUCTS                                                                   |                                                                                         |                                                              |                |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAMC20G15A-AUT</a><br>Description: IC MCU 32BIT 32KB FLASH 48TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMC20E16A-AUT</a><br>Description: IC MCU 32BIT 64KB FLASH 32TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMC20E18A-MNT</a><br>Description: IC MCU 32BIT 256KB FLASH 32VQFN | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMC20E15A-ANT</a><br>Description: IC MCU 32BIT 32KB FLASH 32TQFP  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMC20E16A-MUT</a><br>Description: IC MCU 32BIT 64KB FLASH 32VQFN  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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