

ATSAMS70N19A-CFNT



Part Number:

ATSAMS70N19A-CFNT

Manufacturer:

Micrel / Microchip Technology

Description:

IC MCU 32BIT 512KB FLASH 100BGA

Data sheet:

 [SAM E/S/V70,V71 Family Errata](#)

 [SAM E/S/V70,V71 Family Datasheet](#)

RoHs Status:

Lead free / RoHS Compliant

Ship From:

Hong Kong

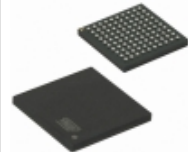
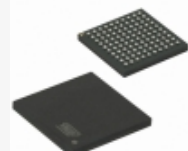
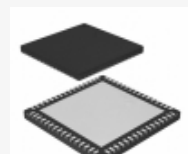
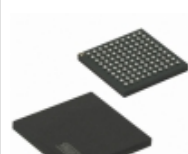
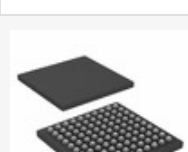
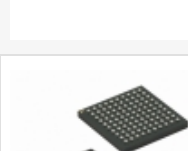
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Images are for reference only.  
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Request For Quotation

| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                              |                                  |                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ATSAMS70N19A-CFNT                                            | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | IC MCU 32BIT 512KB FLASH 100BGA                              | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                        |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 12543 pcs                                                    | Data sheet                       | <a href="#">SAM E/S/V70,V71 Family Errata</a><br><a href="#">SAM E/S/V70,V71 Family Datasheet</a> |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">Integrated Circuits (ICs)</a>                    | Voltage - Supply (Vcc/Vdd)       | 1.08 V ~ 3.6 V                                                                                    |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100-VFBGA (7x7)                                              | Speed                            | 300MHz                                                                                            |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SAM S70                                                      | RAM Size                         | 256K x 8                                                                                          |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FLASH                                                        | Program Memory Size              | 512KB (512K x 8)                                                                                  |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, POR, PWM, WDT | Packaging                        | Tape & Reel (TR)                                                                                  |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100-VFBGA                                                    | Other Names                      | ATSAMS70N19A-CFNT-ND<br>ATSAMS70N19A-CFNTTR                                                       |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Internal                                                     | Operating Temperature            | -40°C ~ 105°C (TA)                                                                                |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 75                                                           | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                     |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 Weeks                                                      | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                        |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -                                                            | Detailed Description             | ARM® Cortex®-M7 SAM S70 Microcontroller IC 32-Bit 300MHz 512KB (512K x 8) FLASH 100-VFBGA (7x7)   |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A/D 10x12b, D/A 2x12b                                        | Core Size                        | 32-Bit                                                                                            |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ARM® Cortex®-M7                                              | Connectivity                     | I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, SPI, UART/USART, USB                                 |
| Base Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ATSAMS70N19                                                  |                                  |                                                                                                   |
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| RELATED PRODUCTS                                                                   |                                                                                          |                                                              |                |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
|  | Part#: <a href="#">ATSAMS70N20A-CNT</a><br>Description: IC MCU 32BIT 1MB FLASH 100TFBGA  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMS70N19A-CN</a><br>Description: IC MCU 32BIT 512KB FLASH 100BGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMS70N20A-ANT</a><br>Description: IC MCU 32BIT 1MB FLASH 100LQFP   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMS70J21B-MN</a><br>Description: IC MCU 32BIT 2MB FLASH 64QFN      | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
|  | Part#: <a href="#">ATSAMS70N20A-CN</a><br>Description: IC MCU 32BIT 1MB FLASH 100TFBGA   | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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