



Micrel / Microchip Technology

### ATSAME70N19A-CNT

|                      |  |
|----------------------|--|
| Part Number:         | ATSAME70N19A-CNT   |
| Manufacturer/Brand:  | Micrel / Microchip Technology  |
| Product description: | IC MCU 32BIT 512KB FLASH 100BGA  |
| Datasheets:          | <a href="#">1.ATSAME70N19A-CNT.pdf</a><br><a href="#">2.ATSAME70N19A-CNT.pdf</a> |
| RoHS Status:         | Lead free / RoHS Compliant   |
| Stock Condition:     | 11472 pcs stock  |
| Ship From:           | Hong Kong  |
| Shipment Way:        | DHL/Fedex/TNT/UPS/EMS  |

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Image may be representation. See specifications for product details.

#### Specifications of ATSAME70N19A-CNT

|                                  |   |
|----------------------------------|---|
| PART NUMBER                      | ATSAME70N19A-CNT  |
| MANUFACTURER                     | Micrel / Microchip Technology   |
| DESCRIPTION                      | IC MCU 32BIT 512KB FLASH 100BGA   |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant  |
| QUANTITY AVAILABLE               | 11472 pcs   |
| DATA SHEET                       | <a href="#">1.ATSAME70N19A-CNT.pdf</a><br><a href="#">2.ATSAME70N19A-CNT.pdf</a>                |
| VOLTAGE - SUPPLY (VCC/VDD)       | 1.62 V ~ 3.6 V  |
| SUPPLIER DEVICE PACKAGE          | 100-TFBGA (9x9)   |
| SPEED                            | 300MHz  |
| SERIES                           | SAM E70   |
| 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-TFBGA   |
| OTHER NAMES                      | ATSAME70N19A-CNT-ND<br>ATSAME70N19A-CNTTR   |
| OSCILLATOR TYPE                  | Internal  |
| OPERATING TEMPERATURE            | -40°C ~ 105°C (TA)  |
| NUMBER OF I/O                    | 75  |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)   |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant  |
| EEPROM SIZE                      | -   |
| DETAILED DESCRIPTION             | ARM® Cortex®-M7 SAM E70 Microcontroller IC 32-Bit 300MHz 512KB (512K x 8) FLASH 100-TFBGA (9x9) |
| DATA CONVERTERS                  | A/D 10x12b, D/A 2x12b   |
| CORE SIZE                        | 32-Bit  |
| CORE PROCESSOR                   | ARM® Cortex®-M7   |
| CONNECTIVITY                     | CANbus, Ethernet, I <sup>2</sup> C, IrDA, LINbus, MMC/SD/SDIO, SPI, UART/USART, USB             |
| BASE PART NUMBER                 | ATSAME70N19   |

#### Related Tags

|  |  |   |
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#### Related Products

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|--|---|
| <p><b>ATSAME70N19A-ANT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 32BIT 512KB FLASH 100LQFP<br/>In stock: 11957 pcs</p> <p><a href="#">RFQ</a></p> | <p><b>ATSAME70J21B-ANT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 32BIT 2MB FLASH 64LQFP<br/>In stock: 8834 pcs</p> <p><a href="#">RFQ</a></p>    |
| <p><b>ATSAME70J21B-AN</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 32BIT 2MB FLASH 64LQFP<br/>In stock: 7889 pcs</p> <p><a href="#">RFQ</a></p>      | <p><b>ATSAME70N19A-AN</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 32BIT 512KB FLASH 100LQFP<br/>In stock: 10487 pcs</p> <p><a href="#">RFQ</a></p> |
| <p><b>ATSAME70J21A-ANT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 32BIT 2MB FLASH 64LQFP<br/>In stock: 8513 pcs</p> <p><a href="#">RFQ</a></p>     | <p><b>ATSAME70N20A-CN</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 32BIT 1MB FLASH 100TFBGA<br/>In stock: 8295 pcs</p> <p><a href="#">RFQ</a></p>   |
| <p><b>ATSAME70N20A-AN</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 32BIT 1MB FLASH 100LQFP<br/>In stock: 9531 pcs</p> <p><a href="#">RFQ</a></p>     | <p><b>ATSAME70N19B-CNT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: CM7,512KB FLASH,256KB SRAM<br/>In stock: 10324 pcs</p> <p><a href="#">RFQ</a></p>      |
| <p><b>ATSAME70N20A-ANT</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 32BIT 1MB FLASH 100LQFP<br/>In stock: 10905 pcs</p> <p><a href="#">RFQ</a></p>   | <p><b>ATSAME70N20A-CN</b><br/>Manufacturers: Microchip Technology<br/>Description: IC MCU 32BIT 1MB FLASH 100TFBGA<br/>In stock: 8924 pcs</p> <p><a href="#">RFQ</a></p>            |
| <p><b>ATSAME70N19A-CN</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: IC MCU 32BIT 512KB FLASH 100BGA<br/>In stock: 16823 pcs</p> <p><a href="#">RFQ</a></p>   | <p><b>ATSAME70N19B-CN</b><br/>Manufacturers: Micrel / Microchip Technology<br/>Description: CM7,512KB FLASH,256KB SRAM,BGA10<br/>In stock: 9158 pcs</p> <p><a href="#">RFQ</a></p>  |