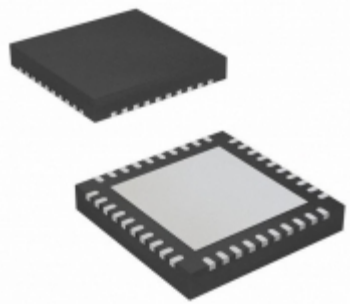


C8051F965-A-GMR



**SILICON LABS**

**Part Number:** [C8051F965-A-GMR](#)

**Manufacturer:** [Energy Micro \(Silicon Labs\)](#)

**Description:** IC MCU 8BIT 64KB FLASH 40QFN

**Data sheet:**  [C8051F96x Short](#)  
 [C8051F96x](#)

**RoHs Status:** Lead free / RoHS Compliant

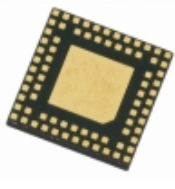
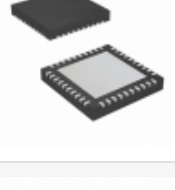
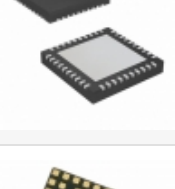
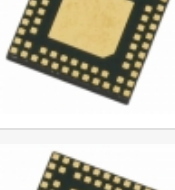
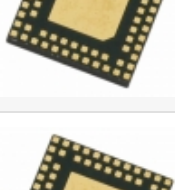
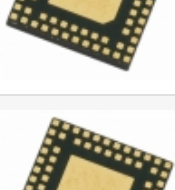
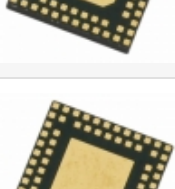
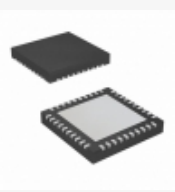
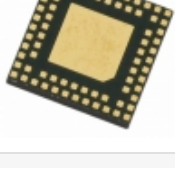
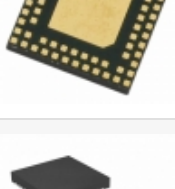
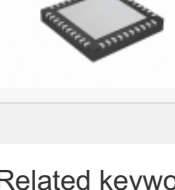
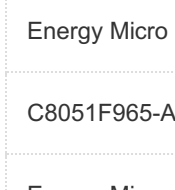
**Ship From:** Hong Kong

**Shipment Way:** DHL/Fedex/TNT/UPS/EMS

Images are for reference only.  
See Product Specifications for product details.  
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                           |                                |                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------|---------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | C8051F965-A-GMR                           | Manufacturer                   | <a href="#">Energy Micro (Silicon Labs)</a>                                     |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IC MCU 8BIT 64KB FLASH 40QFN              | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                      |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4307 pcs                                  | Data sheet                     | <a href="#">C8051F96x Short</a><br><a href="#">C8051F96x</a>                    |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <a href="#">Integrated Circuits (ICs)</a> | Voltage - Supply (Vcc/Vdd)     | 1.8 V ~ 3.8 V                                                                   |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 40-QFN (6x6)                              | Speed                          | 25MHz                                                                           |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | C8051F9xx                                 | RAM Size                       | 8.25K x 8                                                                       |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FLASH                                     | Program Memory Size            | 64KB (64K x 8)                                                                  |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DMA, LCD, POR, PWM, WDT                   | Packaging                      | Tape & Reel (TR)                                                                |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40-VFQFN Exposed Pad                      | Oscillator Type                | Internal                                                                        |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -40°C ~ 85°C (TA)                         | Number of I/O                  | 34                                                                              |
| Moisture Sensitivity Level (MSL)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 (Unlimited)                             | Lead Free Status / RoHS Status | Lead free / RoHS Compliant                                                      |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -                                         | Detailed Description           | 8051 C8051F9xx Microcontroller IC 8-Bit 25MHz 64KB (64K x 8) FLASH 40-QFN (6x6) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A/D 16x10b/12b                            | Core Size                      | 8-Bit                                                                           |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8051                                      | Connectivity                   | I <sup>2</sup> C, SPI, UART/USART                                               |
| Component-World.com is a Reliable Stocking Distributor of Electronic Components. We specialize in all Energy Micro (Silicon Labs) series electronic components. We have 4307 pieces of Energy Micro (Silicon Labs) C8051F965-A-GMR in stock available now. Request a quote from electronics components distributor at Component-World.com, our sales team will contact you within 24 hours.<br>RFQ Email: <a href="mailto:info@Components-World.com">info@Components-World.com</a> |                                           |                                |                                                                                 |

| RELATED PRODUCTS                                                                   |                                                                                      |                                                            |                     |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------|
|  | Part#: <a href="#">C8051F964-A-GMR</a><br>Description: IC MCU 8BIT 64KB FLASH 76DQFN | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F964-B-GQ</a><br>Description: IC MCU 8BIT 64KB FLASH 80TQFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F965-A-GM</a><br>Description: IC MCU 8BIT 64KB FLASH 40QFN   | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F963-B-GMR</a><br>Description: IC MCU 8BIT 128KB FLASH 40QFN | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F966-A-GMR</a><br>Description: IC MCU 8BIT 32KB FLASH 76DQFN | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F966-B-GM</a><br>Description: IC MCU 8BIT 32KB FLASH 76DQFN  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F966-B-GMR</a><br>Description: IC MCU 8BIT 32KB FLASH 76DQFN | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F966-A-GM</a><br>Description: IC MCU 8BIT 32KB FLASH 76DQFN  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F964-B-GM</a><br>Description: IC MCU 8BIT 64KB FLASH 76DQFN  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F964-B-GQR</a><br>Description: IC MCU 8BIT 64KB FLASH 80TQFP | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F966-B-GQR</a><br>Description: IC MCU 8BIT 32KB FLASH 80TQFP | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F964-A-GQ</a><br>Description: IC MCU 8BIT 64KB FLASH 80TQFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F966-A-GQR</a><br>Description: IC MCU 8BIT 32KB FLASH 80TQFP | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F965-B-GMR</a><br>Description: IC MCU 8BIT 64KB FLASH 40QFN  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F964-A-GQR</a><br>Description: IC MCU 8BIT 64KB FLASH 80TQFP | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F966-A-GQ</a><br>Description: IC MCU 8BIT 32KB FLASH 80TQFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F964-B-GMR</a><br>Description: IC MCU 8BIT 64KB FLASH 76DQFN | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F966-B-GQ</a><br>Description: IC MCU 8BIT 32KB FLASH 80TQFP  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F964-A-GM</a><br>Description: IC MCU 8BIT 64KB FLASH 76DQFN  | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |
|  | Part#: <a href="#">C8051F965-B-GM</a><br>Description: IC MCU 8BIT 64KB FLASH 40QFN   | Manufacturers: <a href="#">Energy Micro (Silicon Labs)</a> | <a href="#">RFQ</a> |

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