

C8051F123R



SILICON LABS



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Part Number: C8051F123R

Manufacturer: Energy Micro (Silicon Labs)

Description: IC MCU 8BIT 128KB FLASH 64TQFP

Data sheet:  C8051F120-27/130-33

RoHs Status: Contains lead / RoHS non-compliant

Ship From: Hong Kong

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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                       |                                  |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                    | C8051F123R                                                                            | Manufacturer                     | Energy Micro (Silicon Labs)        |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                    | IC MCU 8BIT 128KB FLASH 64TQFP                                                        | Lead Free Status / RoHS Status   | Contains lead / RoHS non-compliant |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                             | 5232 pcs                                                                              | Data sheet                       | C8051F120-27/130-33                |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                       | Integrated Circuits (ICs)                                                             | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 3.6 V                        |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                        | 64-TQFP (10x10)                                                                       | Speed                            | 100MHz                             |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                         | C8051F12x                                                                             | RAM Size                         | 8.25K x 8                          |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                            | FLASH                                                                                 | Program Memory Size              | 128KB (128K x 8)                   |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                    | Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT                                    | Packaging                        | Tape & Reel (TR)                   |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                 | 64-TQFP                                                                               | Other Names                      | 336-1082-2                         |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                | Internal                                                                              | Operating Temperature            | -40°C ~ 85°C (TA)                  |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                  | 32                                                                                    | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                      |
| Lead Free Status / RoHS Status                                                                                                                                                                                                                                                                                                                                                                                                 | Contains lead / RoHS non-compliant                                                    | EEPROM Size                      | -                                  |
| Detailed Description                                                                                                                                                                                                                                                                                                                                                                                                           | 8051 C8051F12x Microcontroller IC 8-Bit 100MHz 128KB (128K x 8) FLASH 64-TQFP (10x10) | Data Converters                  | A/D 8x8b, 8x10b; D/A 2x12b         |
| Core Size                                                                                                                                                                                                                                                                                                                                                                                                                      | 8-Bit                                                                                 | Core Processor                   | 8051                               |
| Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                   | EBI/EMI, SMBus (2-Wire/I <sup>2</sup> C), SPI, UART/USART                             | Base Part Number                 | C8051F12                           |
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