

C8051F509-IMR



**SILICON LABS**

Part Number: [C8051F509-IMR](#)

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

Description IC MCU 8BIT 64KB FLASH 40QFN

Data sheet:  [C8051F50x/F51x](#)
 [C8051F50x-51x Errata](#)

RoHs Status: Lead free / RoHS Compliant

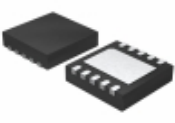
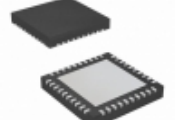
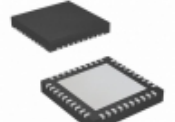
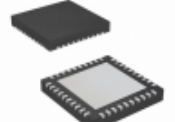
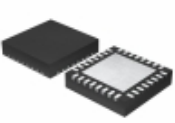
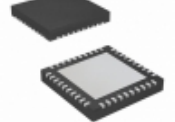
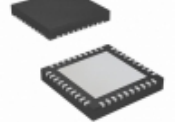
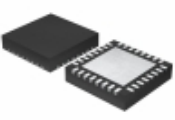
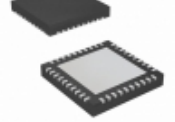
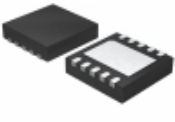
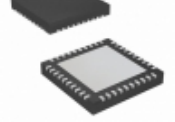
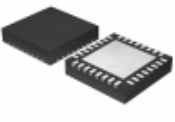
Ship From: Hong Kong

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

Images are for reference only.
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PRODUCT PARAMETER			
Part Number	C8051F509-IMR	Manufacturer	Energy Micro (Silicon Labs)
Description	IC MCU 8BIT 64KB FLASH 40QFN	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	16093 pcs	Data sheet	C8051F50x/F51x C8051F50x-51x Errata
Category	Integrated Circuits (ICs)	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 5.25 V
Supplier Device Package	40-QFN (6x6)	Speed	50MHz
Series	C8051F50x	RAM Size	4.25K x 8
Program Memory Type	FLASH	Program Memory Size	64KB (64K x 8)
Peripherals	POR, PWM, Temp Sensor, WDT	Packaging	Tape & Reel (TR)
Package / Case	40-VFQFN Exposed Pad	Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)	Number of I/O	33
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	8051 C8051F50x Microcontroller IC 8-Bit 50MHz 64KB (64K x 8) FLASH 40-QFN (6x6)	Data Converters	A/D 32x12b
Core Size	8-Bit	Core Processor	8051
Connectivity	EBI/EMI, SMBus (2-Wire/I ² C), SPI, UART/USART	Base Part Number	C8051F50
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	Description: IC MCU 8BIT 8KB FLASH 10DFN		
	Part#: C8051F509-IM	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Description: IC MCU 8BIT 64KB FLASH 40QFN		
	Part#: C8051F521-C-IM	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Description: IC MCU 8BIT 8KB FLASH 10DFN		
	Part#: C8051F506-IQR	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Description: IC MCU 8BIT 32KB FLASH 32LQFP		
	Part#: C8051F508-IMR	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Description: IC MCU 8BIT 64KB FLASH 40QFN		
	Part#: C8051F511-IMR	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Description: IC MCU 8BIT 32KB FLASH 40QFN		
	Part#: C8051F507-IQR	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Description: IC MCU 8BIT 32KB FLASH 32LQFP		
	Part#: C8051F506-IQ	Manufacturers: Energy Micro (Silicon Labs)	RFQ
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	Part#: C8051F508-IM	Manufacturers: Energy Micro (Silicon Labs)	RFQ
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	Part#: C8051F507-IQ	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Description: IC MCU 8BIT 32KB FLASH 32LQFP		
	Part#: C8051F506-IMR	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Description: IC MCU 8BIT 32KB FLASH 32QFN		
	Part#: C8051F520-C-IMR	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Description: IC MCU 8BIT 8KB FLASH 10DFN		

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