

SIM3C164-B-GMR



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**SILICON LABS**

Part Number: [SIM3C164-B-GMR](#)

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

Description: IC MCU 32BIT 256KB FLASH 40QFN

Data sheet:  [SIM3C1xx Datasheet](#)
 [SIM3U1xx/SIM3C1xx Ref Manual](#)
 [SIM3C1xx UDP User Guide](#)

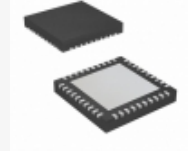
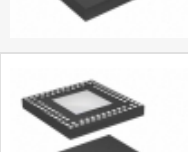
RoHs Status: Lead free / RoHS Compliant

Ship From: Hong Kong

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PRODUCT PARAMETER			
Part Number	SIM3C164-B-GMR	Manufacturer	Energy Micro (Silicon Labs)
Description	IC MCU 32BIT 256KB FLASH 40QFN	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
Quantity Available	13104 pcs	Data sheet	SIM3C1xx Datasheet SIM3U1xx/SIM3C1xx Ref Manual SiM3C1xx UDP User Guide
Category	Integrated Circuits (ICs)	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 3.6 V
Supplier Device Package	40-QFN (6x6)	Speed	80MHz
Series	SIM3C1xx	RAM Size	32K x 8
Program Memory Type	FLASH	Program Memory Size	256KB (256K x 8)
Peripherals	Brown-out Detect/Reset, DMA, I²S, 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	28
Moisture Sensitivity Level (MSL)	2 (1 Year)	Lead Free Status / RoHS Status	Lead free / RoHS Compliant
EEPROM Size	-	Detailed Description	ARM® Cortex®-M3 SiM3C1xx Microcontroller IC 32-Bit 80MHz 256KB (256K x 8) FLASH 40-QFN (6x6)
Data Converters	A/D 18x12b, D/A 2x10b	Core Size	32-Bit
Core Processor	ARM® Cortex®-M3	Connectivity	I²C, IrDA, SmartCard, SPI, UART/USART
Base Part Number	SIM3C1		
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	Part#: SIM3C167-B-GQ Description: IC MCU 32BIT 256KB FLASH 80TQFP	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C166-B-GQ Description: IC MCU 32BIT 256KB FLASH 64TQFP	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C156-B-GM Description: IC MCU 32BIT 128KB FLASH 64QFN	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C156-B-GQ Description: IC MCU 32BIT 128KB FLASH 64TQFP	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C157-B-GMR Description: IC MCU 32BIT 128KB FLASH 92LGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C1XX-B-EDK Description: KIT DEVELOPMENT ENH SIM3C1XX	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C157-B-GQ Description: IC MCU 32BIT 128KB FLASH 80TQFP	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C164-B-GM Description: IC MCU 32BIT 256KB FLASH 40QFN	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C167-B-GMR Description: IC MCU 32BIT 256KB FLASH 92LGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C166-B-GMR Description: IC MCU 32BIT 256KB FLASH 64QFN	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C166-B-GM Description: IC MCU 32BIT 256KB FLASH 64QFN	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C166-B-GQR Description: IC MCU 32BIT 256KB FLASH 64TQFP	Manufacturers: Energy Micro (Silicon Labs)	RFQ
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	Part#: SIM3C167-B-GM Description: IC MCU 32BIT 256KB FLASH 92LGA	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C157-B-GQR Description: IC MCU 32BIT 128KB FLASH 80TQFP	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C167-B-GQR Description: IC MCU 32BIT 256KB FLASH 80TQFP	Manufacturers: Energy Micro (Silicon Labs)	RFQ
	Part#: SIM3C1XX-B-DK Description: KIT DEVELOPMENT SIM3C1XX	Manufacturers: Energy Micro (Silicon Labs)	RFQ

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