



### **C8051F986-GMR Information**



For Reference Only

Part Number C8051F986-GMR Manufacturer Silicon Labs

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

**Description** IC MCU 8BIT 8KB FLASH 24QFN

Package 24-WFQFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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## **C8051F986-GMR Specifications**

Manufacturer Part Number         C8051F986-GMR           Manufacturer         Silicon Labs           Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         24-WPQFN Exposed Pad           Series         C8051F9xx           Core Processor         CIP-51 8051           Core Size         8-Bit           Speed         25MHz           Connectivity         SMBus (2-Wire/12C), SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT           Number of I/O         17           Program Memory Size         8KB (8K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         512 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 10x12b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         24-WFQFN Exposed Pad           Supplier Device Package         124-QFN (4x4)	*		
Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         24-WFQFN Exposed Pad           Series         C8051F9xx           Core Processor         CIP-51 8051           Core Size         8-Bit           Speed         25MHz           Connectivity         SMBus (2-Wire/12C), SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT           Number of I/O         17           Program Memory Size         8KB (8K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         512 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 10x12b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         24-WFQFN Exposed Pad           Supplier Device Package         24-QFN (4x4)	Manufacturer Part Number	C8051F986-GMR	
Embedded - Microcontrollers           Package         24-WFQFN Exposed Pad           Series         C8051F9xx           Core Processor         CIP-51 8051           Core Size         8-Bit           Speed         25MHz           Connectivity         SMBus (2-Wire/12C), SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT           Number of I/O         17           Program Memory Size         8KB (8K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         512 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 10x12b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         24-WFQFN Exposed Pad           Supplier Device Package         24-QFN (4x4)	Manufacturer	Silicon Labs	
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Series         C8051F9xx           Core Processor         CIP-51 8051           Core Size         8-Bit           Speed         25MHz           Connectivity         SMBus (2-Wire/12C), SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT           Number of I/O         17           Program Memory Size         8KB (8K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         512 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 10x12b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         24-WFQFN Exposed Pad           Supplier Device Package         24-QFN (4x4)		Embedded - Microcontrollers	
Core Processor         CIP-51 8051           Core Size         8-Bit           Speed         25MHz           Connectivity         SMBus (2-Wire/12C), SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT           Number of I/O         17           Program Memory Size         8KB (8K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         512 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 10x12b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         24-WFQFN Exposed Pad           Supplier Device Package         24-QFN (4x4)	Package	24-WFQFN Exposed Pad	
Core Size         8-Bit           Speed         25MHz           Connectivity         SMBus (2-Wire/I2C), SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT           Number of I/O         17           Program Memory Size         8KB (8K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         512 x 8           Voltage - Supply (Vcc/Vdd)         1.8 V ~ 3.6 V           Data Converters         A/D 10x12b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         24-WFQFN Exposed Pad           Supplier Device Package         24-QFN (4x4)	Series	C8051F9xx	
Speed25MHzConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, Temp Sensor, WDTNumber of I/O17Program Memory Size8KB (8K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size512 x 8Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Core Processor	CIP-51 8051	
Connectivity SMBus (2-Wire/I2C), SPI, UART/USART  Peripherals Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT  Number of I/O 17  Program Memory Size 8KB (8K x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 512 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 10x12b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -  Package / Case 24-WFQFN Exposed Pad  Supplier Device Package 24-QFN (4x4)	Core Size	8-Bit	
Peripherals Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT  Number of I/O  17  Program Memory Size 8KB (8K x 8)  Program Memory Type FLASH  EEPROM Size - RAM Size 512 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 10x12b  Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA)  Mounting Type - Package / Case 24-WFQFN Exposed Pad  Supplier Device Package 24-QFN (4x4)	Speed	25MHz	
Number of I/O Program Memory Size 8KB (8K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 512 x 8 Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V Data Converters A/D 10x12b Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type Package / Case 24-WFQFN Exposed Pad Supplier Device Package 24-QFN (4x4)	Connectivity	SMBus (2-Wire/I2C), SPI, UART/USART	
Program Memory Size 8KB (8K x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 512 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 10x12b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -  Package / Case 24-WFQFN Exposed Pad  Supplier Device Package 24-QFN (4x4)	Peripherals	Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT	
Program Memory Type FLASH  EEPROM Size -  RAM Size 512 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 10x12b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -  Package / Case 24-WFQFN Exposed Pad  Supplier Device Package 24-QFN (4x4)	Number of I/O	17	
EEPROM Size - S12 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 10x12b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type - Package / Case 24-WFQFN Exposed Pad  Supplier Device Package 24-QFN (4x4)	Program Memory Size	8KB (8K x 8)	
RAM Size 512 x 8  Voltage - Supply (Vcc/Vdd) 1.8 V ~ 3.6 V  Data Converters A/D 10x12b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -  Package / Case 24-WFQFN Exposed Pad  Supplier Device Package 24-QFN (4x4)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)1.8 V ~ 3.6 VData ConvertersA/D 10x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-QFN (4x4)	EEPROM Size	-	
Data Converters  A/D 10x12b  Oscillator Type  Internal  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  - Package / Case  24-WFQFN Exposed Pad  Supplier Device Package  24-QFN (4x4)	RAM Size	512 x 8	
Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA)  Mounting Type - Package / Case 24-WFQFN Exposed Pad Supplier Device Package 24-QFN (4x4)	Voltage - Supply (Vcc/Vdd)	1.8 V ~ 3.6 V	
Operating Temperature -40°C ~ 85°C (TA)  Mounting Type - Package / Case 24-WFQFN Exposed Pad  Supplier Device Package 24-QFN (4x4)	Data Converters	A/D 10x12b	
Mounting Type - Package / Case 24-WFQFN Exposed Pad Supplier Device Package 24-QFN (4x4)	Oscillator Type	Internal	
Package / Case 24-WFQFN Exposed Pad Supplier Device Package 24-QFN (4x4)	Operating Temperature	-40°C ~ 85°C (TA)	
Supplier Device Package 24-QFN (4x4)	Mounting Type	-	
	Package / Case	24-WFQFN Exposed Pad	
Report errors?	Supplier Device Package	24-QFN (4x4)	
			Report errors?

### C8051F986-GMR Guarantees



### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

### **C8051F986-GMR Payment Methods**



















## C8051F986-GMR Shipping Methods













If you have any question about C8051F986-GMR, please do not hesitate to contact us!

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