

C8051F010-GQ

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C8051F010-GQ Information

wyonautilisener den	Part Number	C8051F010-GQ	
	Manufacturer	Silicon Labs	
	Category	Integrated Circuits (ICs) Embedded - Microcontrollers	
	Description	IC MCU 8BIT 32KB FLASH 64TQFP	
	Package	64-TQFP	
		For the pricing/inventory/lead time, please contact	
For Reference Only		us Website: https://www.heisener.com E-mail: salesdept@heisener.com	

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C8051F010-GQ Specifications

Manufacturer Silicon Labs Manufacturer Silicon Labs Integrated Circuits (ICs) Embedded - Microcontrollers Package 64-TQFP Series C8051F01x Core Processor 8051 Core Size 8-Bit Speed 20MHz Connectivity SMBus (2-Wire/I2C), SPI, UART/USART Peripherals Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT Number of I/O 32 Program Memory Size 32KB (32K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 256 x 8 Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V Data Converters A/D 8x10b; D/A 2x12b Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type - Package / Case 64-TQFP		
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage64-TQFPSeriesC8051F01xCore Processor8051Core Size8-BitSpeed20MHzConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, Temp Sensor, WDTNumber of I/O32Program Memory Size32KB (32K x 8)Pergorm Memory TypeFLASHEEPROM Size-NAM Size256 x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator TypeInternalOperating Temperature40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFP (10x10)	Manufacturer Part Number	C8051F010-GQ
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SeriesC8051F01xCore Processor8051Core Size8-BitSpeed20MHzConnectivitySMBus (2-Wire/12C), SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, Temp Sensor, WDTNumber of I/O32Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator TypeInternalOperating Temperature40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFP (10x10)		Embedded - Microcontrollers
Core Processor 8051 Core Size 8-Bit Speed 20MHz Connectivity SMBus (2-Wire/12C), SPI, UART/USART Peripherals Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT Number of I/O 32 Program Memory Size 32KB (32K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 256 x 8 Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V Data Converters A/D 8x10b; D/A 2x12b Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type - Package / Case 64-TQFP (10x10)	Package	64-TQFP
Core Size8-BitSpeed20MHzConnectivitySMBus (2-Wire/12C), SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, Temp Sensor, WDTNumber of I/O32Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)2,7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator Type-Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64TQFP (10x10)	Series	C8051F01x
Speed20MHzConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, Temp Sensor, WDTNumber of I/O32Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator Type-Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFP (10x10)	Core Processor	8051
ConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsBrown-out Detect/Reset, POR, PWM, Temp Sensor, WDTNumber of I/O32Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFP (10x10)	Core Size	8-Bit
PeripheralsBrown-out Detect/Reset, POR, PWM, Temp Sensor, WDTNumber of I/O32Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator Type-40°C ~ 85°C (TA)Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFP (10x10)	Speed	20MHz
Number of I/O32Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFPSupplier Device Package64-TQFP (10x10)	Connectivity	SMBus (2-Wire/I2C), SPI, UART/USART
Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFP (10x10)	Peripherals	Brown-out Detect/Reset, POR, PWM, Temp Sensor, WDT
Program Memory TypeFLASHEEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFP (10x10)	Number of I/O	32
EEPROM Size-RAM Size256 x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFPSupplier Device Package64-TQFP (10x10)	Program Memory Size	32KB (32K x 8)
RAM Size256 x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFPSupplier Device Package64-TQFP (10x10)	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFPSupplier Device Package64-TQFP (10x10)	EEPROM Size	-
Data ConvertersA/D 8x10b; D/A 2x12bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFPSupplier Device Package64-TQFP (10x10)	RAM Size	256 x 8
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFPSupplier Device Package64-TQFP (10x10)	Voltage - Supply (Vcc/Vdd)	2.7 V ~ 3.6 V
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case64-TQFPSupplier Device Package64-TQFP (10x10)	Data Converters	A/D 8x10b; D/A 2x12b
Mounting Type-Package / Case64-TQFPSupplier Device Package64-TQFP (10x10)	Oscillator Type	Internal
Package / Case64-TQFPSupplier Device Package64-TQFP (10x10)	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package64-TQFP (10x10)	Mounting Type	-
	Package / Case	64-TQFP
Report errors?	Supplier Device Package	64-TQFP (10x10)
		Report errors ⁶

C8051F010-GQ 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

Service Guarantees

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

C8051F010-GQ Payment Methods



If you have any question about C8051F010-GQ, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com