

# C8051F368-C-GQ

## C8051F368-C-GQ Information

| www.herseneneom    | Part Number<br>Manufacturer<br>Category<br>Description<br>Package | Integrated Circuits (ICs)<br>Embedded - Microcontrollers<br>IC MCU 8BIT 16KB FLASH 32LQFP<br>32-LQFP |                 |
|--------------------|---|--|-----------------|
| ., .               |   | For the pricing/inventory/lead time, please contact us   |                 |
| For Reference Only |   | Website: https://www.heisener.com<br>E-mail: salesdept@heisener.com                                  | Request a Quote |

# **Certified Quality**

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# C8051F368-C-GQ Specifications

| ManufacturerSilicon LabsCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage32-LQFPSeriesC8051F36xCore Processor8051Core Size8-BitSpeed50MHzConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsPOR, PWM, Temp Sensor, WDTNumber of I/O29Program Memory SizeI6KB (16K x 8)EEPROM Size-RAM SizeIK x 8Voltage - Supply (Vcc/Vdd)2,7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case32-LQFPSupplier Device Package32-LQFP (7x7)                            |                            |                                     |
|--|----------------------------|-------------------------------------|
| CategoryIntegrated Circuits (ICs)PackageSinebdded - MicrocontrollersPackage32-LQFPSeriesC8051F36xCore Processor8051Core Size8-BitSpeed50MHzConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsPOR, PWM, Temp Sensor, WDTNumber of I/O29Program Memory Size16KB (16K x 8)EEPROM Size-RAM SizeIK x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOperating Temperature-40°C ~ 85°C (TA)Munting Type-Package / Case32-LQFPSupplier Device Package32-LQFP (7x7)   | Manufacturer Part Number   | C8051F368-C-GQ                      |
| Embedded - MicrocontrollersPackage32-LQFPSeriesC8051F36xCore Processor8051Core Size8-BitSpeed50MHzConnectivitySMBus (2-Wire/12C), SPI, UART/USARTPeripheralsPOR, PWM, Temp Sensor, WDTNumber of I/O29Program Memory Size16KB (16K x 8)PERPROM Size-RAM SizeIK x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Package / Case32-LQFP (7x7)   | Manufacturer               | Silicon Labs                        |
| Package32-LQFPSeriesC8051F36xCore Processor8051Core Size8-BitSpeed50MHzConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsPOR, PWM, Temp Sensor, WDTNumber of I/O29Program Memory Size16KB (16K x 8)PERPOM Size-RAM SizeIK x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOperating Temperature-40°C ~ 85°C (TA)Package / Case32-LQFP (7x7)  | Category                   | Integrated Circuits (ICs)           |
| SeriesC805 IF36xCore Processor8051Core Size8-BitSpeed50MHzConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsPOR, PWM, Temp Sensor, WDTNumber of I/O29Program Memory Size16KB (16K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size1K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOscillator Type-Package / Case-Supplier Device Package32-LQFP (7x7)   |                            | Embedded - Microcontrollers         |
| Core Processor8051Core Size8-BitSpeed50MHzConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsPOR, PWM, Temp Sensor, WDTNumber of I/O29Program Memory Size16KB (16K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size1K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOscillator Type-Pograting Temperature-40°C ~ 85°C (TA)Mounting Type22-LQFPSupplier Device Package32-LQFP (1x7)  | Package                    | 32-LQFP                             |
| Core Size8-BitSpeed50MHzConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsPOR, PWM, Temp Sensor, WDTNumber of I/O29Program Memory Size16KB (16K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size1K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersAnD 21x10b; D/A 1x10bOscillator Type-Mounting Type-Package / Case32-LQFPSupplier Device Package32-LQFP (7x7)   | Series                     | C8051F36x                           |
| Speed50MHzConnectivitySMBus (2-Wire/I2C), SPI, UART/USARTPeripheralsPOR, PWM, Temp Sensor, WDTNumber of I/O29Program Memory Size16KB (16K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size1K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOscillator Type-Operating Temperature-40°C ~ 85°C (TA)Mounting Type32-LQFP (7x7)  | Core Processor             | 8051                                |
| Connectivity     SMBus (2-Wire/I2C), SPI, UART/USART       Peripherals     POR, PWM, Temp Sensor, WDT       Number of I/O     29       Program Memory Size     16KB (16K x 8)       Program Memory Type     FLASH       EEPROM Size     -       RAM Size     1K x 8       Voltage - Supply (Vcc/Vdd)     2.7 V ~ 3.6 V       Data Converters     A/D 21x10b; D/A 1x10b       Oscillator Type     Internal       Operating Temperature     -40°C ~ 85°C (TA)       Package / Case     32-LQFP       Supplier Device Package     32-LQFP (7x7) | Core Size                  | 8-Bit                               |
| Peripherals     POR, PWM, Temp Sensor, WDT       Number of I/O     29       Program Memory Size     16KB (16K x 8)       Program Memory Type     FLASH       EEPROM Size     -       RAM Size     1K x 8       Voltage - Supply (Vcc/Vdd)     2.7 V ~ 3.6 V       Data Converters     A/D 21x10b; D/A 1x10b       Oscillator Type     Internal       Operating Temperature     -       Package / Case     32-LQFP       Supplier Device Package     32-LQFP (7x7)  | Speed                      | 50MHz                               |
| Number of I/O29Program Memory Size16KB (16K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size1K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOscillator TypeInternalOperating Temperature-Mounting Type-Package / Case32-LQFP (7x7)  | Connectivity               | SMBus (2-Wire/I2C), SPI, UART/USART |
| Program Memory Size16KB (16K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size1K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case32-LQFP (7x7)   | Peripherals                | POR, PWM, Temp Sensor, WDT          |
| Program Memory TypeFLASHEEPROM Size-RAM SizeIK x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case32-LQFP (7x7)  | Number of I/O              | 29                                  |
| EEPROM Size-RAM SizeIK x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case32-LQFPSupplier Device Package32-LQFP (7x7)  | Program Memory Size        | 16KB (16K x 8)                      |
| RAM SizeIK x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case32-LQFPSupplier Device Package32-LQFP (7x7)  | Program Memory Type        | FLASH                               |
| Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 21x10b; D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case32-LQFPSupplier Device Package32-LQFP (7x7)  | EEPROM Size                | -                                   |
| Data ConvertersA/D 21x10b; D/A 1x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case32-LQFPSupplier Device Package32-LQFP (7x7)   | RAM Size                   | 1K x 8                              |
| Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case32-LQFPSupplier Device Package32-LQFP (7x7)   | Voltage - Supply (Vcc/Vdd) | 2.7 V ~ 3.6 V                       |
| Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case32-LQFPSupplier Device Package32-LQFP (7x7)  | Data Converters            | A/D 21x10b; D/A 1x10b               |
| Mounting Type -   Package / Case 32-LQFP   Supplier Device Package 32-LQFP (7x7)   | Oscillator Type            | Internal                            |
| Package / Case32-LQFPSupplier Device Package32-LQFP (7x7)  | Operating Temperature      | -40°C ~ 85°C (TA)                   |
| Supplier Device Package32-LQFP (7x7)   | Mounting Type              | -                                   |
|  | Package / Case             | 32-LQFP                             |
| Report errors?   | Supplier Device Package    | 32-LQFP (7x7)                       |
| 1  |                            | Report errors?                      |

#### C8051F368-C-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 Guarantees**

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

## C8051F368-C-GQ Payment Methods





If you have any question about C8051F368-C-GQ, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com