



Micrel / Microchip Technology

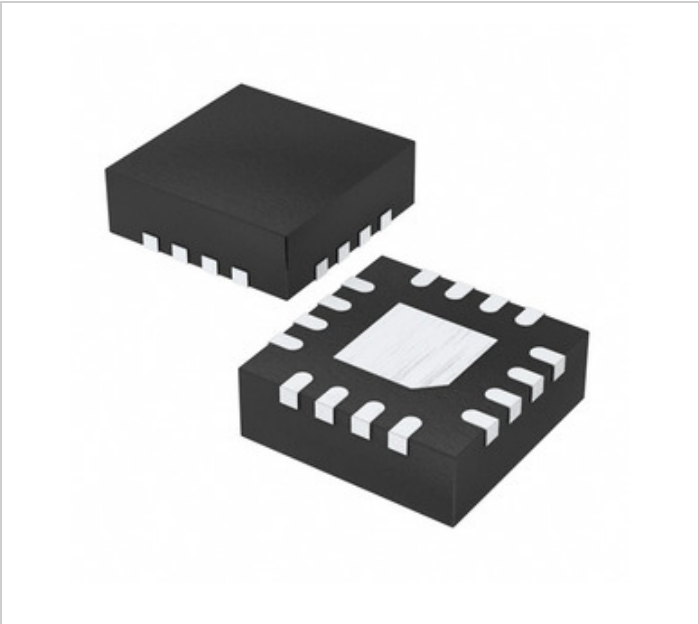


Image may be representation. See specifications for product details.

PIC16F688-E/ML

Part Number:

PIC16F688-E/ML

Manufacturer/Brand:

Micrel / Microchip Technology

Product description

IC MCU 8BIT 7KB FLASH 16QFN

Datasheets:

 1.PIC16F688-E/ML.pdf

 2.PIC16F688-E/ML.pdf

 3.PIC16F688-E/ML.pdf

 4.PIC16F688-E/ML.pdf

 5.PIC16F688-E/ML.pdf

 6.PIC16F688-E/ML.pdf

 7.PIC16F688-E/ML.pdf

 8.PIC16F688-E/ML.pdf

RoHs Status

 Lead free / RoHS Compliant

Stock Condition

56223 pcs stock

Request for quotation

Hong Kong

Shipment way

DHL/Fedex/TNT/UPS/EMS

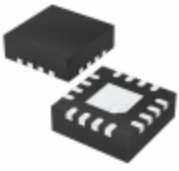
Specifications of PIC16F688-E/ML

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | PIC16F688-E/ML                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| MANUFACTURER                     | Micrel / Microchip Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DESCRIPTION                      | IC MCU 8BIT 7KB FLASH 16QFN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| QUANTITY AVAILABLE               | 56223 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| DATA SHEET                       | <div> 1.PIC16F688-E/ML.pdf</div> <div> 2.PIC16F688-E/ML.pdf</div> <div> 3.PIC16F688-E/ML.pdf</div> <div> 4.PIC16F688-E/ML.pdf</div> <div> 5.PIC16F688-E/ML.pdf</div> <div> 6.PIC16F688-E/ML.pdf</div> <div> 7.PIC16F688-E/ML.pdf</div> <div> 8.PIC16F688-E/ML.pdf</div> |
| VOLTAGE - SUPPLY (VCC/VDD)       | 2 V ~ 5.5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SUPPLIER DEVICE PACKAGE          | 16-QFN (4x4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SPEED                            | 20MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SERIES                           | PIC® 16F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RAM SIZE                         | 256 x 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PROGRAM MEMORY TYPE              | FLASH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PROGRAM MEMORY SIZE              | 7KB (4K x 14)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PERIPHERALS                      | Brown-out Detect/Reset, POR, WDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PACKAGING                        | Tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| PACKAGE / CASE                   | 16-VQFN Exposed Pad                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| OSCILLATOR TYPE                  | Internal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| OPERATING TEMPERATURE            | -40°C ~ 125°C (TA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| NUMBER OF I/O                    | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| MOISTURE SENSITIVITY LEVEL (MSL) | 1 (Unlimited)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| EEPROM SIZE                      | 256 x 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DETAILED DESCRIPTION             | PIC PIC® 16F Microcontroller IC 8-Bit 20MHz 7KB (4K x 14) FLASH 16-QFN (4x4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| DATA CONVERTERS                  | A/D 8x10b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| CORE SIZE                        | 8-Bit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CORE PROCESSOR                   | PIC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| CONNECTIVITY                     | UART/USART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| BASE PART NUMBER                 | PIC16F688                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

Related Tags

|                                              |                                        |                                                       |
|----------------------------------------------|----------------------------------------|-------------------------------------------------------|
| Micrel / Microchip Technology PIC16F688-E/ML | PIC16F688-E/ML Distributor             | PIC16F688-E/ML Supplier                               |
| PIC16F688-E/ML Price                         | PIC16F688-E/ML Pictures                | PIC16F688-E/ML Image                                  |
| PIC16F688-E/ML PDF Datasheet                 | PIC16F688-E/ML Download Datasheet      | PIC16F688-E/ML Datasheet                              |
| PIC16F688-E/ML Stock                         | Buy PIC16F688-E/ML                     | Buy Micrel / Microchip Technology PIC16F688-E/ML      |
| Micrel / Microchip Technology PIC16F688-E/ML | Micrel / Microchip Technology Supplier | Micrel / Microchip Technology Distributor             |
| Micrel / Microchip Technology PIC16F688-E/ML | Microchip Technology PIC16F688-E/ML    | Roving Networks / Microchip Technology PIC16F688-E/ML |

Related Products



**PIC16F688-I/ML**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 7KB FLASH 16QFN  
In stock: 59217 pcs  

RFQ



**PIC16F687-I/SS**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 3.5KB FLASH 20SSOP  
In stock: 73066 pcs  

RFQ



**PIC16F687-I/SO**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 3.5KB FLASH 20SOIC  
In stock: 54355 pcs  

RFQ



**PIC16F687T-E/SS**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 3.5KB FLASH 20SSOP  
In stock: 66515 pcs  

RFQ



**PIC16F688-E/SL**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 7KB FLASH 14SOIC  
In stock: 73351 pcs  

RFQ



**PIC16F688-I/SL**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 7KB FLASH 14SOIC  
In stock: 74225 pcs  

RFQ



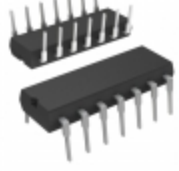
**PIC16F687T-I/SO**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 3.5KB FLASH 20SOIC  
In stock: 60148 pcs  

RFQ



**PIC16F687T-I/SS**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 3.5KB FLASH 20SSOP  
In stock: 55017 pcs  

RFQ



**PIC16F688-E/P**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 7KB FLASH 14DIP  
In stock: 60257 pcs  

RFQ



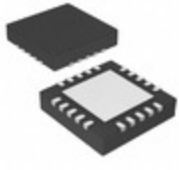
**PIC16F688-I/P**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 7KB FLASH 14DIP  
In stock: 56736 pcs  

RFQ



**PIC16F688-E/ST**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 7KB FLASH 14TSSOP  
In stock: 65629 pcs  

RFQ



**PIC16F687T-I/ML**  
Manufacturers: Micrel / Microchip Technology  
Description: IC MCU 8BIT 3.5KB FLASH 20QFN  
In stock: 67656 pcs  

RFQ

