



#### PIC16F1789-I/MV Information



For Reference Only

Part Number PIC16F1789-I/MV

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

**Description** IC MCU 8BIT 28KB FLASH 40UQFN

Package 40-UFQFN 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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## PIC16F1789-I/MV Specifications

Manufacturer Part Number         PIC16F1789-I/MV           Manufacturer         Microchip Technology           Category         Integrated Circuits (ICs)           Package         40-UFQFN Exposed Pad           Series         PIC? XLP? 16F           Core Processor         PIC           Core Size         8-Bit           Speed         32MHz           Connectivity         12C, LIN, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PSMC, PWM, WDT           Number of I/O         35           Program Memory Size         28KB (16K x 14)           Program Memory Type         FLASH           EEPROM Size         256 x 8           RAM Size         2K x 8           Voltage - Supply (Vcc/Vdd)         2.3 V ~ 5.5 V           Data Converters         A/D 14x12b, D/A 1x8b, 3x5b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-UFQFN Exposed Pad           Supplier Device Package         40-UQFN (5x5)			
Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         40-UFQFN Exposed Pad           Series         PIC? XLP? 16F           Core Processor         PIC           Core Size         8-Bit           Speed         32MHz           Connectivity         I2C, LIN, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PSMC, PWM, WDT           Number of I/O         35           Program Memory Size         28KB (16K x 14)           Program Memory Type         FLASH           EEPROM Size         256 x 8           RAM Size         2K x 8           Voltage - Supply (Vcc/Vdd)         2.3 V ~ 5.5 V           Data Converters         A/D 14x12b, D/A 1x8b, 3x5b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-UFQFN Exposed Pad           Supplier Device Package         40-UQFN (5x5)	Manufacturer Part Number	PIC16F1789-I/MV	
Embedded - Microcontrollers           Package         40-UFQFN Exposed Pad           Series         PIC? XLP? 16F           Core Processor         PIC           Core Size         8-Bit           Speed         32MHz           Connectivity         I2C, LIN, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PSMC, PWM, WDT           Number of I/O         35           Program Memory Size         28KB (16K x 14)           Program Memory Type         FLASH           EEPROM Size         256 x 8           RAM Size         2K x 8           Voltage - Supply (Vcc/Vdd)         2.3 V ~ 5.5 V           Data Converters         A/D 14x12b, D/A 1x8b, 3x5b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-UFQFN Exposed Pad           Supplier Device Package         40-UFFN (5x5)	Manufacturer	Microchip Technology	
Package         40-UFQFN Exposed Pad           Series         PIC? XLP? 16F           Core Processor         PIC           Core Size         8-Bit           Speed         32MHz           Connectivity         I2C, LIN, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PSMC, PWM, WDT           Number of I/O         35           Program Memory Size         28KB (16K x 14)           Program Memory Type         FLASH           EEPROM Size         256 x 8           RAM Size         2K x 8           Voltage - Supply (Vcc/Vdd)         2.3 V ~ 5.5 V           Data Converters         A/D 14x12b, D/A 1x8b, 3x5b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-UFQFN Exposed Pad           Supplier Device Package         40-UGFN (5x5)	Category	Integrated Circuits (ICs)	
Series         PIC? XLP? 16F           Core Processor         PIC           Core Size         8-Bit           Speed         32MHz           Connectivity         12C, LIN, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PSMC, PWM, WDT           Number of I/O         35           Program Memory Size         28KB (16K x 14)           Program Memory Type         FLASH           EEPROM Size         256 x 8           RAM Size         2K x 8           Voltage - Supply (Vcc/Vdd)         2.3 V ~ 5.5 V           Data Converters         A/D 14x12b, D/A 1x8b, 3x5b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-UFQFN Exposed Pad           Supplier Device Package         40-UQFN (5x5)		Embedded - Microcontrollers	
Core Processor         PIC           Core Size         8-Bit           Speed         32MHz           Connectivity         12C, LIN, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PSMC, PWM, WDT           Number of I/O         35           Program Memory Size         28KB (16K x 14)           Program Memory Type         FLASH           EEPROM Size         256 x 8           RAM Size         2K x 8           Voltage - Supply (Vcc/Vdd)         2.3 V ~ 5.5 V           Data Converters         A/D 14x12b, D/A 1x8b, 3x5b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-UFQFN Exposed Pad           Supplier Device Package         40-UQFN (5x5)	Package	40-UFQFN Exposed Pad	
Core Size         8-Bit           Speed         32MHz           Connectivity         I2C, LIN, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, POR, PSMC, PWM, WDT           Number of I/O         35           Program Memory Size         28KB (16K x 14)           Program Memory Type         FLASH           EEPROM Size         256 x 8           RAM Size         2K x 8           Voltage - Supply (Vcc/Vdd)         2.3 V ~ 5.5 V           Data Converters         A/D 14x12b, D/A 1x8b, 3x5b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-UFQFN Exposed Pad           Supplier Device Package         40-UQFN (5x5)	Series	PIC? XLP? 16F	
Speed 32MHz Connectivity 12C, LIN, SPI, UART/USART Peripherals Brown-out Detect/Reset, POR, PSMC, PWM, WDT Number of I/O 35 Program Memory Size 28KB (16K x 14) Program Memory Type FLASH EEPROM Size 256 x 8 RAM Size 256 x 8 RAM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 2.3 V ~ 5.5 V Data Converters A/D 14x12b, D/A 1x8b, 3x5b Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type Package / Case 40-UFQFN Exposed Pad Supplier Device Package 40-UQFN (5x5)	Core Processor	PIC	
Connectivity I2C, LIN, SPI, UART/USART  Peripherals Brown-out Detect/Reset, POR, PSMC, PWM, WDT  Number of I/O 35  Program Memory Size 28KB (16K x 14)  Program Memory Type FLASH  EEPROM Size 256 x 8  RAM Size 2K x 8  Voltage - Supply (Vcc/Vdd) 2.3 V ~ 5.5 V  Data Converters A/D 14x12b, D/A 1x8b, 3x5b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -  Package / Case 40-UFQFN Exposed Pad  Supplier Device Package 40-UQFN (5x5)	Core Size	8-Bit	
Peripherals  Brown-out Detect/Reset, POR, PSMC, PWM, WDT  Number of I/O  35  Program Memory Size  28KB (16K x 14)  Program Memory Type  FLASH  EEPROM Size  256 x 8  RAM Size  2K x 8  Voltage - Supply (Vcc/Vdd)  2.3 V ~ 5.5 V  Data Converters  A/D 14x12b, D/A 1x8b, 3x5b  Oscillator Type  Internal  Operating Temperature  40°C ~ 85°C (TA)  Mounting Type  - Package / Case  40-UFQFN Exposed Pad  Supplier Device Package  40-UQFN (5x5)	Speed	32MHz	
Number of I/O         35           Program Memory Size         28KB (16K x 14)           Program Memory Type         FLASH           EEPROM Size         256 x 8           RAM Size         2K x 8           Voltage - Supply (Vcc/Vdd)         2.3 V ~ 5.5 V           Data Converters         A/D 14x12b, D/A 1x8b, 3x5b           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -           Package / Case         40-UFQFN Exposed Pad           Supplier Device Package         40-UQFN (5x5)	Connectivity	I2C, LIN, SPI, UART/USART	
Program Memory Size 28KB (16K x 14)  Program Memory Type FLASH  EEPROM Size 256 x 8  RAM Size 2K x 8  Voltage - Supply (Vcc/Vdd) 2.3 V ~ 5.5 V  Data Converters A/D 14x12b, D/A 1x8b, 3x5b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -  Package / Case 40-UFQFN Exposed Pad  Supplier Device Package 40-UQFN (5x5)	Peripherals	Brown-out Detect/Reset, POR, PSMC, PWM, WDT	
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EEPROM Size  256 x 8  RAM Size  2K x 8  Voltage - Supply (Vcc/Vdd)  2.3 V ~ 5.5 V  Data Converters  A/D 14x12b, D/A 1x8b, 3x5b  Oscillator Type  Internal  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  - Package / Case  40-UFQFN Exposed Pad  Supplier Device Package  40-UQFN (5x5)	Program Memory Size	28KB (16K x 14)	
RAM Size 2K x 8  Voltage - Supply (Vcc/Vdd) 2.3 V ~ 5.5 V  Data Converters A/D 14x12b, D/A 1x8b, 3x5b  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -  Package / Case 40-UFQFN Exposed Pad  Supplier Device Package 40-UQFN (5x5)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd) 2.3 V $\sim$ 5.5 V A/D 14x12b, D/A 1x8b, 3x5b A/D 14x12b, D/A 1x8b, 3x5b Internal Operating Temperature -40°C $\sim$ 85°C (TA) Mounting Type - Package / Case 40-UFQFN Exposed Pad Supplier Device Package 40-UQFN (5x5)	EEPROM Size	256 x 8	
Data Converters  A/D 14x12b, D/A 1x8b, 3x5b  Oscillator Type  Internal  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  - Package / Case  40-UFQFN Exposed Pad  Supplier Device Package  40-UQFN (5x5)	RAM Size	2K x 8	
Oscillator Type Internal $ -40^{\circ}\text{C} \sim 85^{\circ}\text{C (TA)} $ Mounting Type $ - \text{Package / Case} $ $ 40\text{-UFQFN Exposed Pad} $ Supplier Device Package $ 40\text{-UQFN (5x5)} $	Voltage - Supply (Vcc/Vdd)	2.3 V ~ 5.5 V	
Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA)  Mounting Type $-$ Package / Case $40\text{-UFQFN}$ Exposed Pad  Supplier Device Package $40\text{-UQFN}$ (5x5)	Data Converters	A/D 14x12b, D/A 1x8b, 3x5b	
Mounting Type - Package / Case 40-UFQFN Exposed Pad Supplier Device Package 40-UQFN (5x5)	Oscillator Type	Internal	
Package / Case 40-UFQFN Exposed Pad Supplier Device Package 40-UQFN (5x5)	Operating Temperature	-40°C ~ 85°C (TA)	
Supplier Device Package 40-UQFN (5x5)	Mounting Type	-	
	Package / Case	40-UFQFN Exposed Pad	
Report errors?	Supplier Device Package	40-UQFN (5x5)	
			Report errors?

### PIC16F1789-I/MV 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.

### PIC16F1789-I/MV Payment Methods



















### PIC16F1789-I/MV Shipping Methods













If you have any question about PIC16F1789-I/MV, please do not hesitate to contact us!

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