

PIC18LF45K22T-I/PT

Data Sheet

8-bit Microcontrollers - MCU 32KB Flash 1536B RAM 8B nanoWatt

Manufacturers	Microchip Technology, Inc	
Package/Case	TQFP-44	The second
Product Type	Embedded Processors & Controllers	and the second second
RoHS	Rohs	
Lifecycle		Images are for reference only

Please submit RFQ for PIC18LF45K22T-I/PT or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

Features

C Compiler optimized architecture/instruction set

Data EEPROM to 1024 bytes

Linear program memory addressing to 64 Kbytes

Linear data memory addressing to 4 Kbytes

Up to 16 MIPS operation

16-bit wide instructions, 8-bit wide data path

Priority levels for interrupts

31-level, software accessible hardware stack

8 x 8 Single-Cycle Hardware Multiplier

Sleep mode: 100 nA, typical

Watchdog Timer: 500 nA, typical

Timer1 Oscillator: 500 nA @ typical 32 kHz Flexible Oscillator Structure

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Software selectable frequencies range of 31 kHz to 16 MHz 64 MHz performance available using PLL no external components required Four Crystal modes up to 64 MHz Two external Clock modes up to 64 MHz 4X Phase Lock Loop (PLL) Secondary oscillator using Timer1 @ 32 kHz Allows for safe shutdown if peripheral clock stops Two-Speed Oscillator Start-up Full 5.5V operation (PIC18F2XK22/4XK22) Low voltage option available for 1.8V-3.6V operation (PIC18LF2XK22/4XK22) Self-reprogrammable under software control Power-on Reset (POR), Power-up Timer (PWRT) and Oscillator Start-up Timer (OST) Programmable Brown-out Reset (BOR) Extended Watchdog Timer (WDT) with on-chip oscillator and software enable Programmable code protection In-Circuit Serial ProgrammingTM (ICSPTM) via two pins In-Circuit Debug via two pins 10-bit resolution 17 analog input channels (PIC18F/LF2XK22) 28 analog input channels (PIC18F/LF4XK22) Auto acquisition capability Conversion available during Sleep Programmable High/Low Voltage Detection (PLVD) module Up to 28 channels for button, sensor or slider input Two rail-to-rail analog comparators Comparator inputs and outputs externally accessible and configurable Programmable On-chip Voltage Reference (CVREF) module (% of VDD)

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Selectable on-chip fixed voltage reference		
High current sink/source 25 mA/25 mA		
Individually programmable weak pull-ups		
Individually programmable interrupt-on-pin change		
Three external interrupt pins		
Up to four 16-bit timers/counters with prescaler		
Up to three 8-bit timers/counters		
Dedicated, low-power Timer1 oscillator		
Up to two Capture/Compare/PWM (CCP) modules		
One, two or four PWM outputs		
Selectable polarity		
Programmable dead time		
Auto-shutdown and Auto-restart		
PWM output steering control		
3-wire SPI (supports all 4 SPI modes)		
I2C TM Master and Slave modes (Slave mode with address masking)		
Supports RS-232, RS-485 and LIN 2.0		
Auto-Baud Detect		
Auto Wake-up on Start bit		

Related Products



PIC24F16KA101-I/SS Microchip Technology, Inc SSOP-20

Mic PDI



Microchip Technology, Inc PDIP-28





PIC16F1936-I/SS

Microchip Technology, Inc SSOP-28

PIC18F23K22-I/SP

Microchip Technology, Inc SPDIP-28



PIC18F6520-I/PT

Microchip Technology, Inc TQFP-64



PIC18F2620-I/SP

Microchip Technology, Inc SPDIP-28



PIC18F2620-I/SO

Microchip Technology, Inc SOIC-28



PIC18F97J60T-I/PT

Microchip Technology, Inc TQFP-100