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PIC24FJ128GA306-I/PT

Data Sheet

16-bit Microcontrollers - MCU 16b 16MIPS 128KB FL 8KBRAM LCD XLP Vbat

Manufacturers	Microchip Technology, Inc
Package/Case	TQFP-64
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ	for PIC24FJ128GA306-I/PT	or Email to us: sales@ovaga.c	com We will contact you in 1	2 hours. RFO
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General Description

PIC24F 16-bit Microcontroller featuring nanoWatt XLP for eXtreme Low Power consumption. The device includes advanced low power features including a Low Voltage Sleep mode that maintains the device state and RAM with a typical current of 340 nA, and a Vbat pin that automatically transitions to the RTCC to a battery supply when Vdd is removed. The family is also includes a 480 segment LCD Driver with 60 segment x 8 common drive capability. The combination of feature make the part ideally suited to a number of battery powered and general purpose applications.

Features

Low Power nanoWatt XLP

10 nA Deep Sleep mode

400 nA RTCC in Vbat mode

330 nA Low Voltage Sleep mode (RAM retention)

400 nA Real Time Clock & Calendar operation in Sleep modes

270 nA Watch Dog Timer operation in Deep Sleep modes

150 uA/MHz Run mode

Power Modes: Run, Doze, Idle, Sleep, Low Voltage Sleep, Deep Sleep, Vbat

Multiple, Switchable Clock Modes for Optimum Performance and Power Management

System Supervisors: Low Power BOR, WDT, INTO and RTCC

Up to 16 MIPS performance
Single Cycle Instruction Execution
16 x 16 Hardware Multiply, & 32-bit x 16-bit Hardware Divider
C Compiler Optimized Instruction Set System
Peripherals
Upto 480 segment LCD Driver with 60 segment x 8 common drive
10/12-bit Differential ADC, 24 channels, 200/500 Ksps with Threshold Detect
Peripheral Pin Select allows I/O remapping of many peripherals in real time
Charge Time Measurement Unit (CTMU) enabling 24 channels of Capacitive Touch
Three Analog rail-to-rail comparators Peripherals
Hardware RTCC, Real-Time Clock Calendar with Alarms
System
Internal oscillators support - 31 kHz to 8 MHz, up to 32 MHz with 4X PLL
Fail-Safe Clock Monitor - allows safe shutdown if clock fails
Watchdog Timer with separate RC oscillator
System Supervisors: Low Power BOR, WDT, INTO and RTCC
JTAG Boundary Scan





Related Products



PIC24F16KA101-I/SS

SSOP-20

Microchip Technology, Inc

PIC16F1938-I/SP 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