

PIC24EP512GU810-I/PT

Data Sheet

PIC/DSPIC Microcontroller, PIC24 Family PIC24EP GU Series Microcontrollers, PIC24, 16bit, 140 MHz

| Manufacturers | Microchip Technology, Inc | |
|---|-----------------------------------|-------------------------------|
| Package/Case | TQFP-100 | Anna and and |
| Product Type | Embedded Processors & Controllers | and a second second |
| RoHS | Rohs | |
| Lifecycle | | Images are for reference only |
| | | |
| Please submit RFQ for PIC24EP512GU810-I/PT or Email to us: sales@ovaga.com We will contact you in 12 hours. | | |

General Description

Microchip's PIC24E general purpose microcontroller family features the high speed 70 MIPS core with excellent performance and code density. It offers superior ADC performance, enhanced CAN communication, easier graphic display interface through 8-bit parallel master port and up to 15 DMA channels for extensive data movement. These devices are available in various packages and with extended (125°C) temp option.

Features

Operating Range

3.0V to 3.6V, -40°C to +85°C, DC to 70 MIPS

3.0V to 3.6V, -40°C to +125°C, DC to 60 MIPS

PIC24E MCU Core

Modified Harvard architecture

C compiler optimized instruction set

16-bit wide data path

24-bit wide instructions

16 x 16 multiply operations

32/16 and 16/16 divide operations

Communication Interfaces USB 2.0 OTG-Compliant Full-Speed Interface Two CANTM modules (1 Mbaud) Four UART modules (15 Mbps) supports LIN/J2602 protocols and IrDA Four 4-Wire SPI modules (15 Mbps) Two I2C modules (up to 1 Mbaud) with SMBus Support Data Converter Interface (DCI) module with Support for I2S and Audio Codecs PPS to allow Function Remap Parallel Master Port (PMP) Programmable Cyclic Redundancy Check (CRC) Advanced Analog Features Two independent ADC module One ADC Configurable as 10-bit, 1.1 Msps with four S&H or 12-bit, 500 ksps with one S&H Second 10-bit ADC has 1.1 Msps with four S&H Eight S&H using both ADC 10-bit modules 24 analog channels (64-pin devices) up to 32 analog channels (100/121/144-pin devices) Flexible and independent ADC trigger sources Up to three Analog Comparator modules Programmable references with 32 voltage points for Comparators Timers / Capture / Compare / Standard PWM Nine16-bit Timers/Counters. 16 Input Capture 16 Output Compare/ PWM Unused Output compares can be used as standard times for a total of 25 timers Hardware Real-Time Clock and Calendar Peripheral Pin Select (PPS) to allow function remap Direct Memory Access (DMA)

15-channel DMA with user-selectable priority arbitration

Ovaga Technologies Limited

Related Products



PIC24F16KA101-I/SS

Microchip Technology, Inc SSOP-20



Microchip Technology, Inc PDIP-28



PIC18F6520-I/PT Microchip Technology, Inc TQFP-64



PIC18F2620-I/SO

Microchip Technology, Inc SOIC-28









PIC16F1936-I/SS

Microchip Technology, Inc SSOP-28

PIC18F23K22-I/SP

Microchip Technology, Inc SPDIP-28

PIC18F2620-I/SP

Microchip Technology, Inc SPDIP-28

PIC18F97J60T-I/PT

Microchip Technology, Inc TQFP-100