General Description

ET8656 is an 8-bit microprocessor with low-power and high-speed CMOS technology. Integrated into a single chip are on-chip watchdog timer (WDT), RAM, ROM, real time clock/counter, external and interrupt, power down mode, and tristate I/O.

Features

Operating voltage range: 2.3V~5.5V

■ Operating temperature range: 0 °C~70 °C

Operating frequency rang (base on 2 clocks):

Crystal mode: DC~20MHz (5V), DC~8MHz (3V), DC~4MHz (2.3V) ERC mode: DC~4MHz (5V), DC~4MHz (3V), DC~4MHz (2.3V)

Low power consumption:

Less than 2.0 mA at 5V/4MHz

Typically 15 µA at 3V/32KHz

Typically 1 µA during sleep mode

- 1K×13 bit on chip ROM
- One configuration register to accommodate user's requirements
- 48×8 bits on chip registers (SRAM, general purpose register)
- 2 bi-directional I/O ports
- 5 level stacks for subroutine nesting
- 8-bit real time clock/counter (TCC) with selective signal sources, trigger edges, and overflow interrupt
- Two clock per instruction cycle
- Power down (SLEEP mode)
- Three available interruptions

TCC overflow interrupt

Input-port status changed interrupt (wake up from sleep mode)

External interrupt

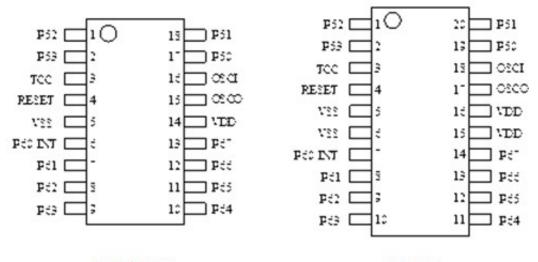
- Programmable free running watchdog timer
- 8 programmable pull-high pins
- 7 programmable pull-down pins
- 8 programmable open-drain pins
- 2 programmable R-option pins
- 99.9% single instruction cycle commands
- The transient point of system frequency between HXT and LXT is around 400KHz
- Package:

DIP18 (ET8656P)

SOP18 (ET8656M)

SSOP20 (ET8656S)

Pin Configuration



DIP18/SOP18 SSOP20₽