

Forum: [8-bit PIC](#)

Topic: [PIC16F1507-Oscillation EC mode 外部線路要怎接](#)

Subject: [Re: PIC16F1507-Oscillation EC mode 外部線路要怎接](#)

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好奇問題一下...

使用External Clock的原因是...

EC mode has three power modes to select from through the FOSC bits in the Configuration Words:

&#8226; ECH – High power, 4-20 MHz

&#8226; ECM – Medium power, 0.5-4 MHz

&#8226; ECL – Low power, 0-0.5 MHz

附加檔案:

[16F1507-External-Clock.jpg\(175.02 KB\)](#)

## PIC16(L)F1507

### 5.2 Clock Source Types

Clock sources can be classified as external, internal or peripheral.

External clock sources rely on external circuitry for the clock source to function. Examples are: oscillator modules (ECH, ECM, ECL modes)

Internal clock sources are contained within the oscillator module. The internal oscillator block has two internal oscillators that are used to generate the internal system clock sources: the 16 MHz High-Frequency Internal Oscillator (HFINTOSC) and the 31 kHz Low-Frequency Internal Oscillator (LFINTOSC).

The peripheral clock source is a nominal 800 kHz internal RC oscillator, FRC. The FRC is traditionally used with the ADC module, but is sometimes available to other peripherals. See [Section 5.2.2.4 "Peripheral Clock Sources"](#).

The system clock can be selected between external or internal clock sources via the System Clock Select (SCS) bits in the OSCCON register. See [Section 5.3 "Clock Switching"](#) for additional information.

FIGURE 5-2: EXTERNAL CLOCK (EC) MODE OPERATION

