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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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1) 好奇問題一下...

使用External Clock的原因是...

=>想學習一下外部震盪,但是我一直不懂外部硬體要怎麼接,

因為我按照附檔接法,程式無法正常運作(Fosc也改為ECx mode,且RA5 改為in status),改為內振,是可以正常運作的

附加檔案:

未命名1.jpg(195.66 KB)

The screenshot displays the 'dsPIC30F Family Reference Manual' page for 'Crystal Oscillators/Ceramic Resonators'. It includes a circuit diagram for XTAL, OSC1, and OSC2 pins, with components like C1, C2, R1, and R2. The diagram shows the oscillator circuit connected to the dsPIC30FXXXX device. Below the diagram are three notes: Note 1: A series resistor, Rs, may be required for AT strip cut crystals. Note 2: The internal feedback resistor, Rf, is typically in the range of 2 to 10 MΩ. Note 3: See Section 7.7 "Determining Best Values for Crystals, Clock Mode, C1, C2 and Rs".

7.6.1 Oscillator/Resonator Start-up

As the device voltage increases from V_{SS} , the oscillator will start its oscillations. The time required for the oscillator to start oscillating depends on many factors. These include:

- Crystal/resonator frequency
- Capacitor values used (C1 and C2 in Figure 7-3)
- Device V_{DD} rise time
- System temperature
- Series resistor value and type if used (Rs in Figure 7-3)