

- Search about AVR micro-controller' clock details. How can its internal clock be used?

To setup clock sources, we should use CKSEL0, CKSEL1, CKSEL2 and CLSEL3 pins. By generating custom inputs, we can get 5 different results from the clock. This clock can generate 1Mhz, 2Mhz, 4Mhz and 8Mhz waves. Also, it is important to mention that the CKOPT pint should be disable when using these 4 pins.

Device Clocking Option	CKSEL3..0
External Clock	0000
External RC Oscillator	1000 – 0101
Calibrated Internal RC Oscillator	0100 – 0001
External Low-Frequency Crystal	1001
External Crystal/Ceramic Resonator	111 - 1010

On this account, required settings for using Internal Calibrated RC oscillator have been mentioned in the following table.

CLSEL3..0	Nominal Frequency
0001	1.0Mhz
0010	2.0Mhz
0011	4.0Mhz
0100	8.0Mhz

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