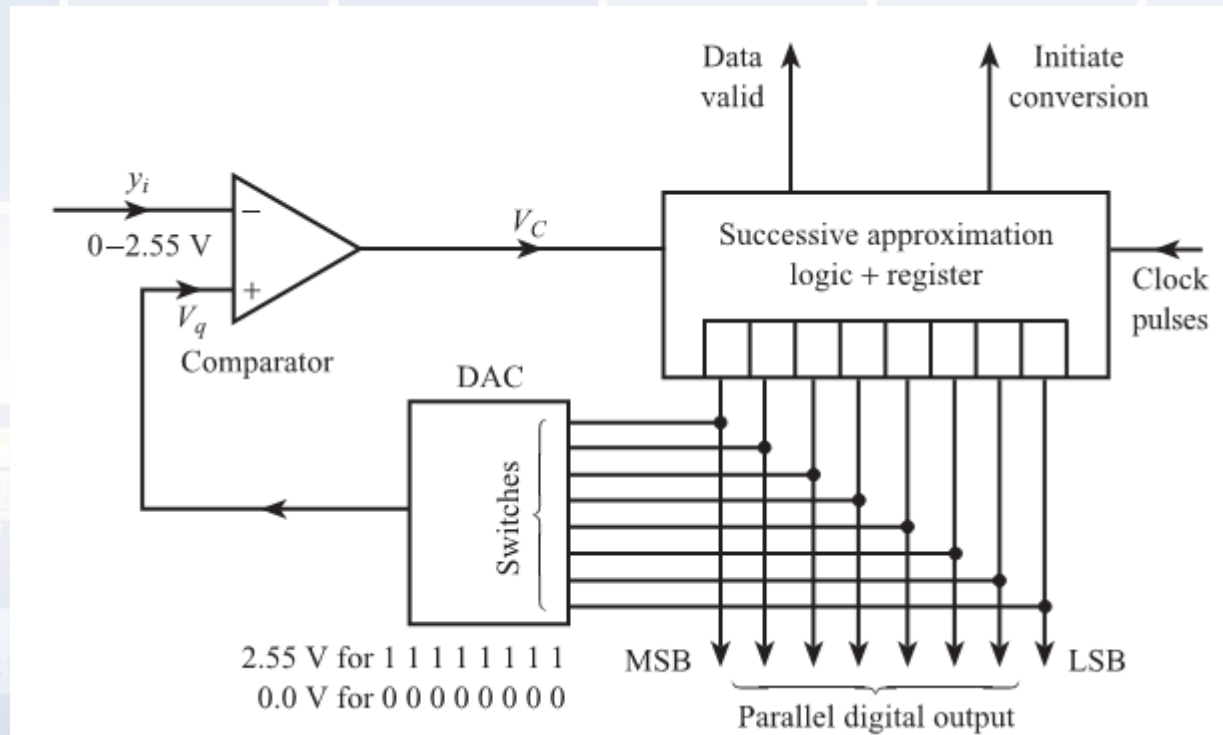


SIGNAL PROCESSING ELEMENT (Cont.)

Analogue To Digital Converters (ADC).

Successive Approximation.

Mendekatkan tegangan analog satu persatu.



ADC 0804

Data 8 bit.

Successive approximation.

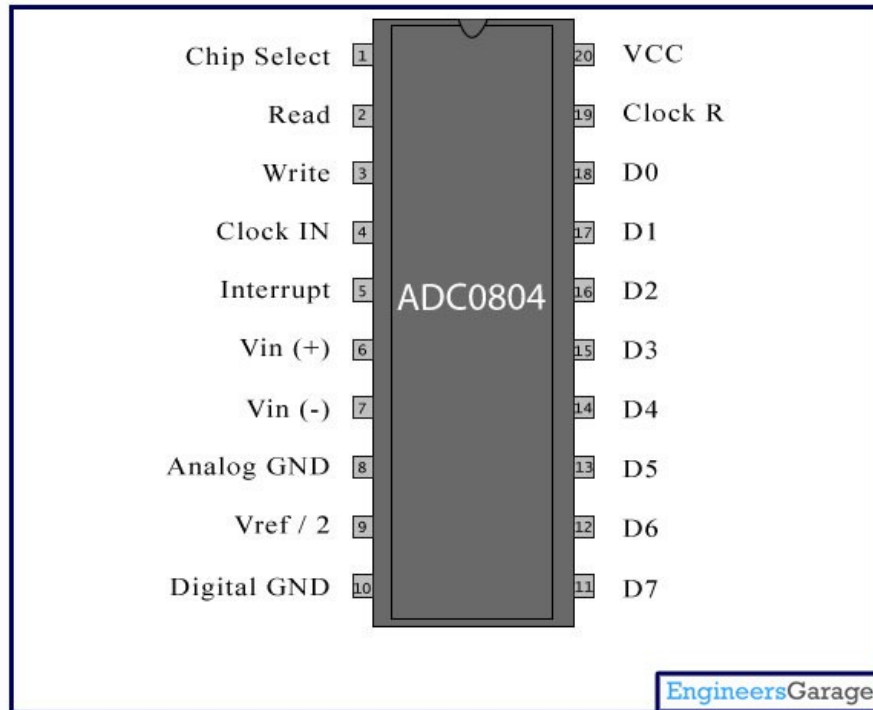
Vin (+), Vin(-).

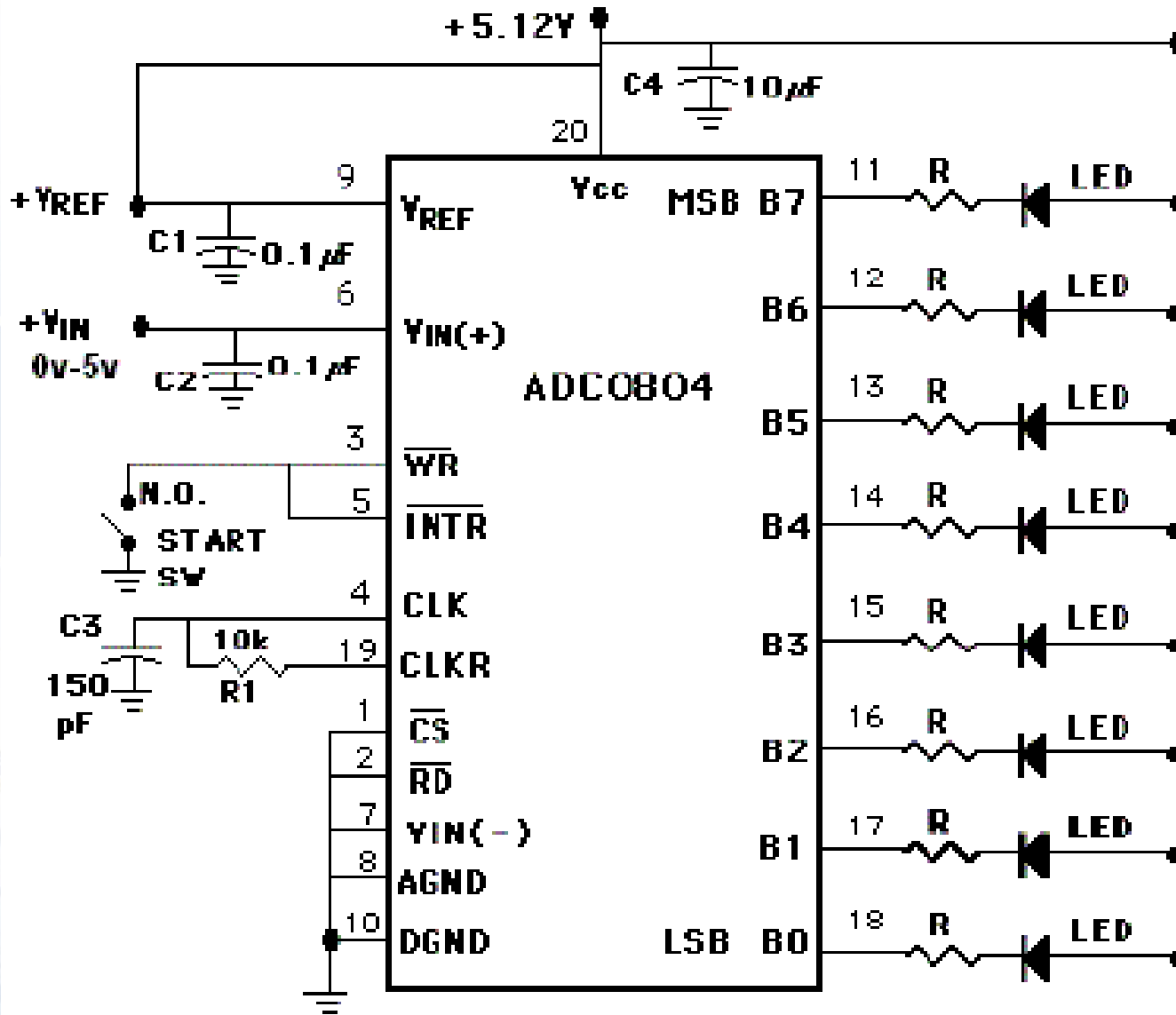
Tegangan sumber 5 volt,
referensi 5 volt,

$$Resolusi = \frac{V_{out_{skalapenuh}}}{2^n - 1} = \frac{5\text{Volt}}{255} = 19,6\text{mVolt}$$

Clock generator,

$$f = \frac{0,91}{RC}$$





Microcontroller system

Widely uses in measurement system.

Timer/Counter

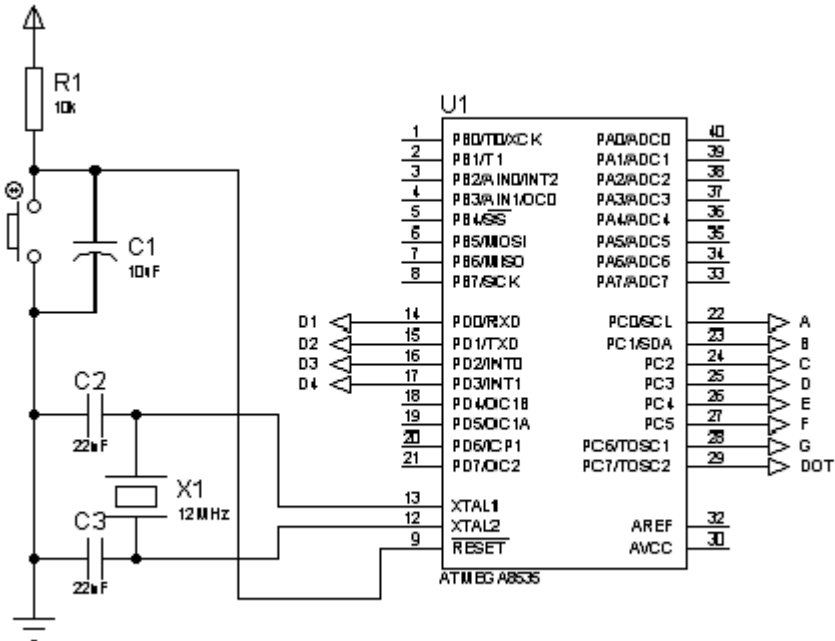
ADC

Analog Comparator

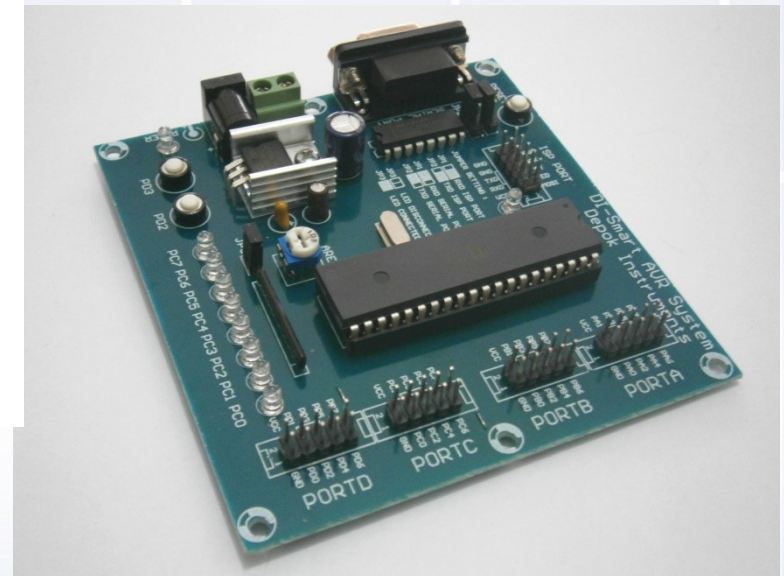
LCD, Seven Segmen

PWM Generator

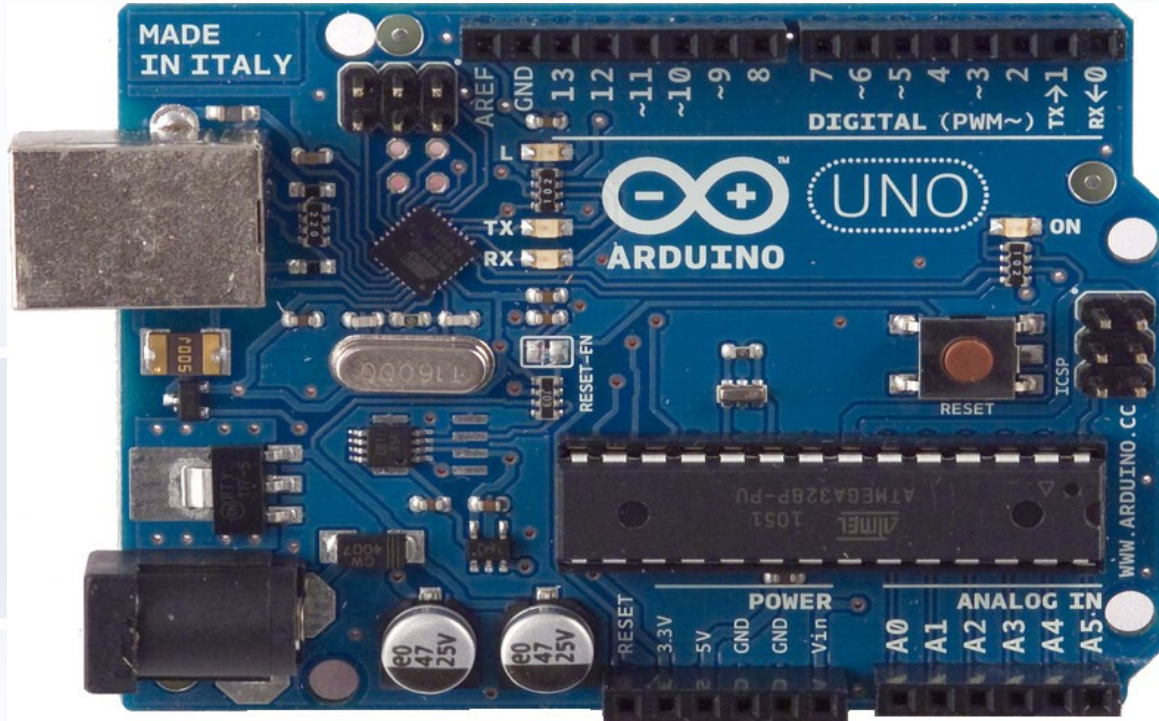
X.5



www.duniaelektronika.net



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<http://arduino.cc/en/Main/ArduinoBoardUno/>