

Konular

• DAC (digital to analog converter)

- Binary weighted DAC

- R/2R ladder DAC

- DAC entegresi: DAC + 834

• ADC

- Parallel ADC

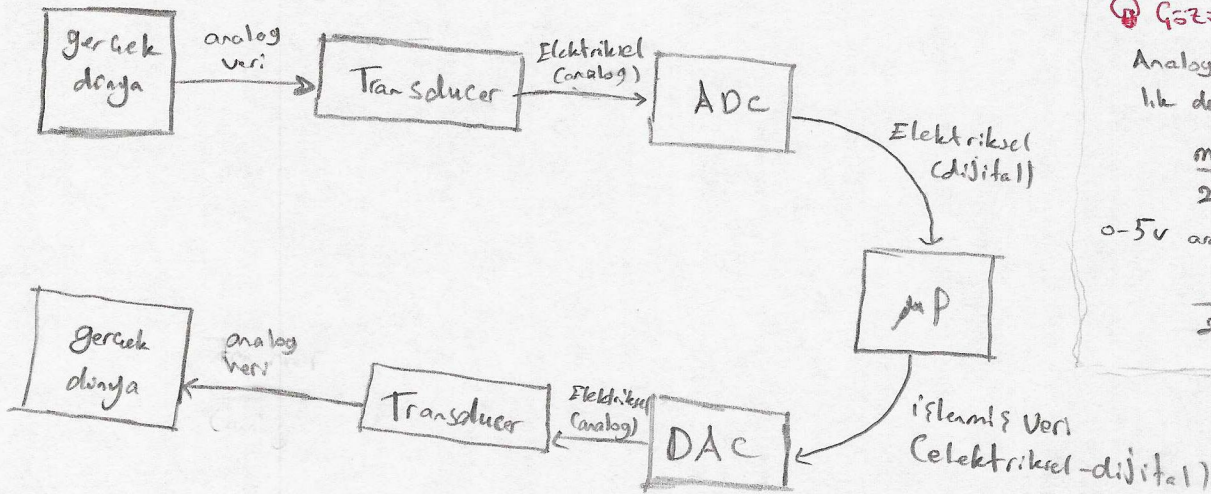
- Ramp converter ADC

- ADC entegresi: ADC + 804

MP
WU11

💡 Neden DAC-ADC?

MP dijital değerlerle çalışır, gerçek dünya analog! (nem, basınç, ses, ...)



💡 Gözetimlilik (ADC)

Analog gerilimdeki ne kadarlık değişim çıkışı +1 etkiler

$$\frac{\max V - \min V}{2^n - 1}$$

0-5V arası 8 bitlik ADC için

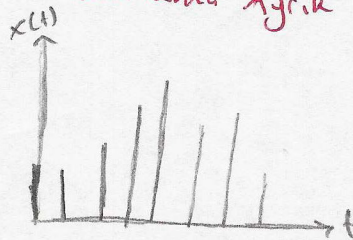
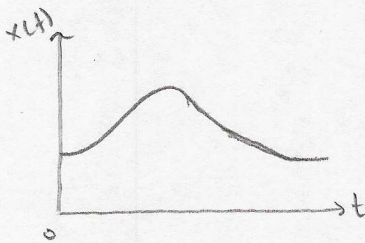
$$\frac{5}{255}$$

Analog - Dijital Sinyal

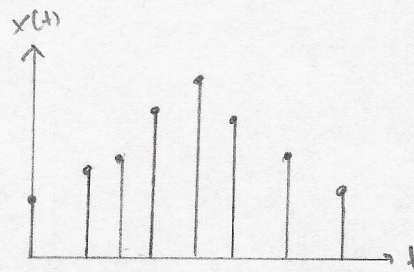
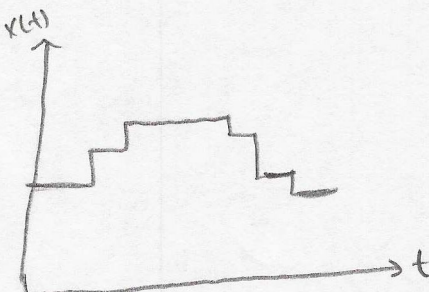
Zamanda Sirekli Sinyal

Zamanda Ayrık

Genliği Sirekli



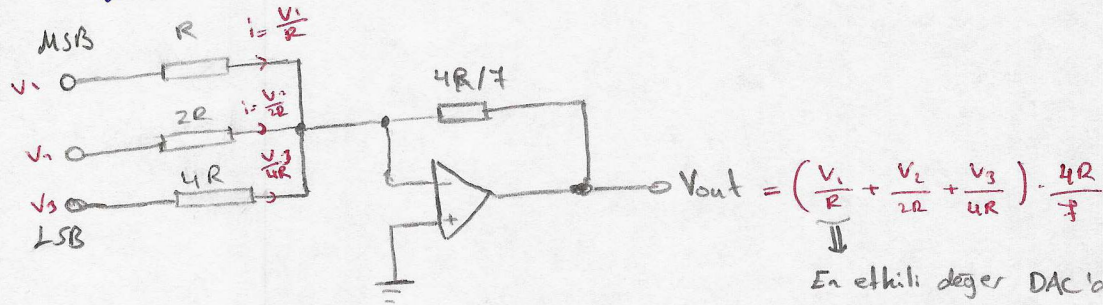
Genliği Ayrık



DAC

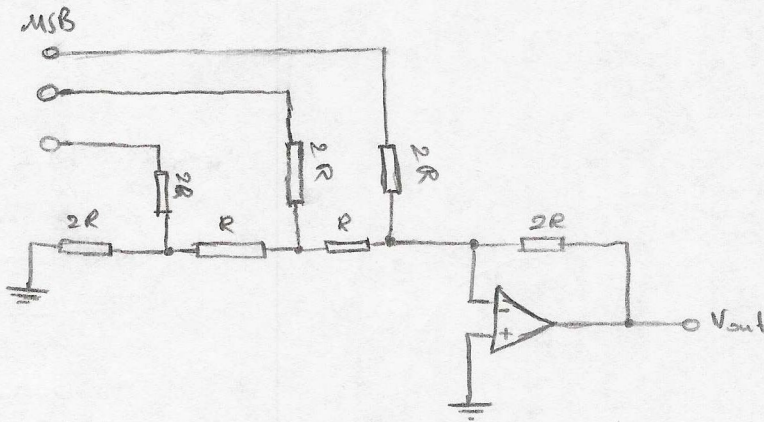
µp
w11/2

Binary Weighted DAC



En etkili değer DAC'de MSB' a karşılık gelir

R/2R ladder DAC



DA C 083φ

