

Konular

• DAC (digital to analog converter)

- Binary weighted DAC

- R/2R ladder DAC

- DAC entegresi: DAC + 834

• ADC

- Parallel ADC

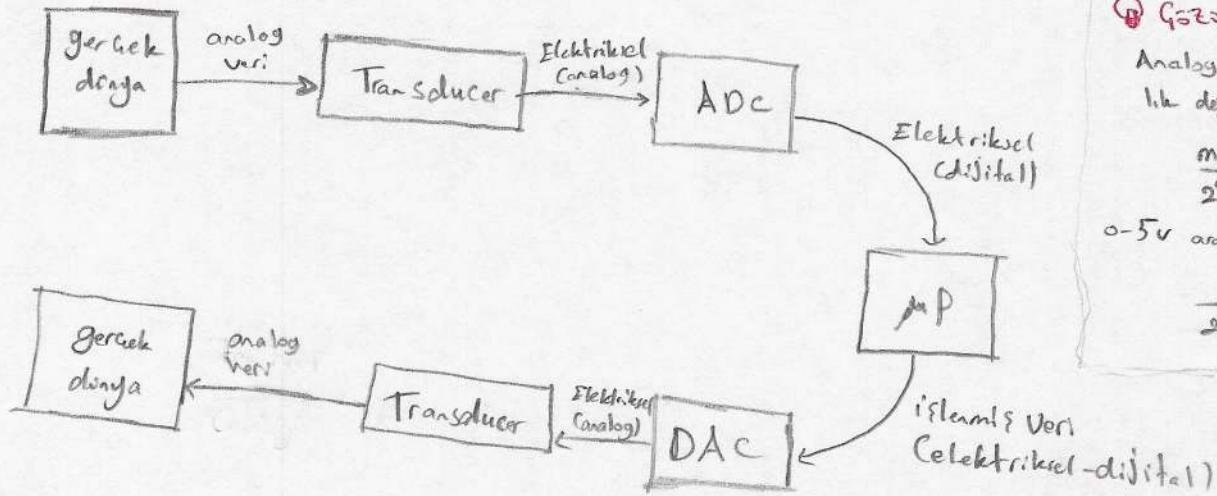
- Ramp converter ADC

- ADC entegresi: ADC + 804

MP  
WU/1

💡 Neden DAC-ADC?

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



💡 Gözetimlilik (ADC)

Analog gerilimdeki ne kadarlık değişim çıkışı +1 etkiler

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

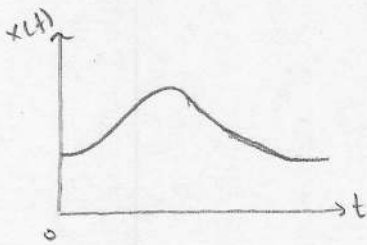
0-5V arası 8 bitlik ADC için

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

Analog-Dijital Sinyal

Zamanda Sirekli Sinyal

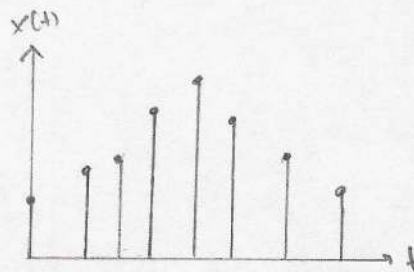
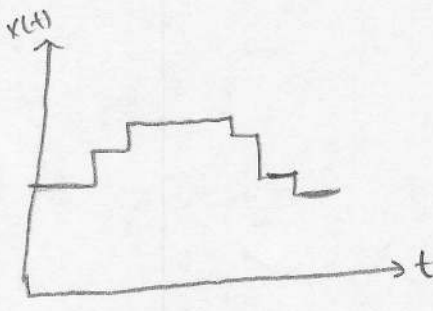
Genliği Sirekli



Zamanda Ayrık



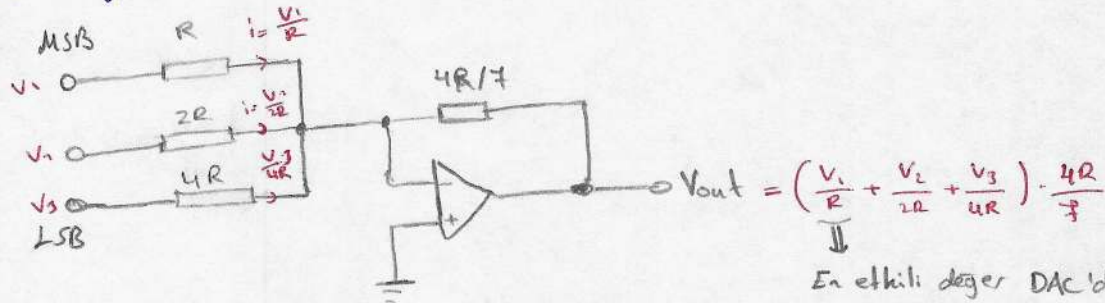
Genliği Ayrık



# DAC

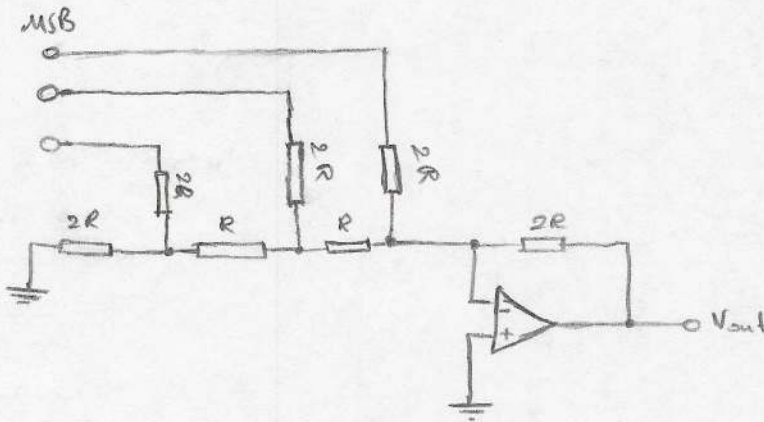
mp  
w11/2

## Binary Weighted DAC



En etkili deger DAC'de MSB'a karşılık gelir

## R/2R ladder DAC



## DA C 083φ

