





Flash A/D Converter: Ad. # This converter is very fast. It requires one clock cycle to convert the analog to digital data. Dis. # It requires a lot component. N=3. 2N=8 Midrise quantization: comparators 9.375 = V7 R 8.125=V6 P 6.875=V=V N+7 V- , V. = High Digital 5.62T = V4-Cirwil N+ < N_ , No = 10W , 4.375 = V3 -1SB Vref = 9.375 V 3.125 = V2-Vref = -0.675V I - (Vret - Vref = 10)
8R 8R

Dual Slope converter.

V1 = V0+1R=1.825V

= -0.677 + 8

IR = Vo - Vref

=> V6 = Vrof + 1P

= 0.675

Adv: It requires small amound of circuit components. We can use many levels for quantization.

Quantization

It gives

of highest voltage

Encoding

level

the binary output

Disadvantage: Relatively slow.





