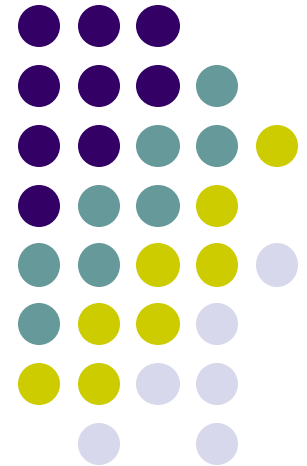


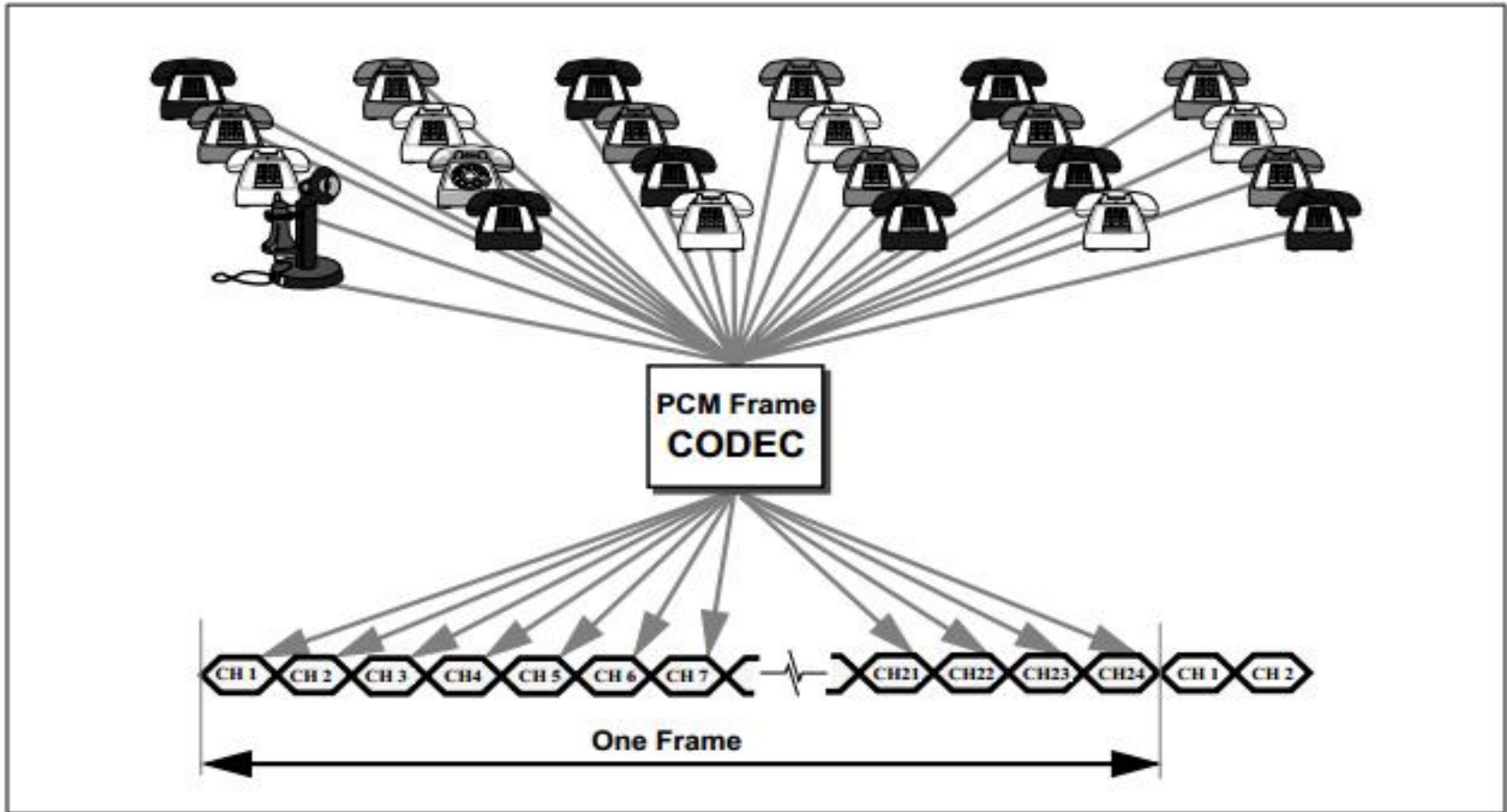
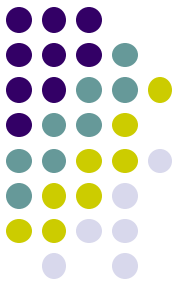
DIGITAL SWITCHING

ETI2506

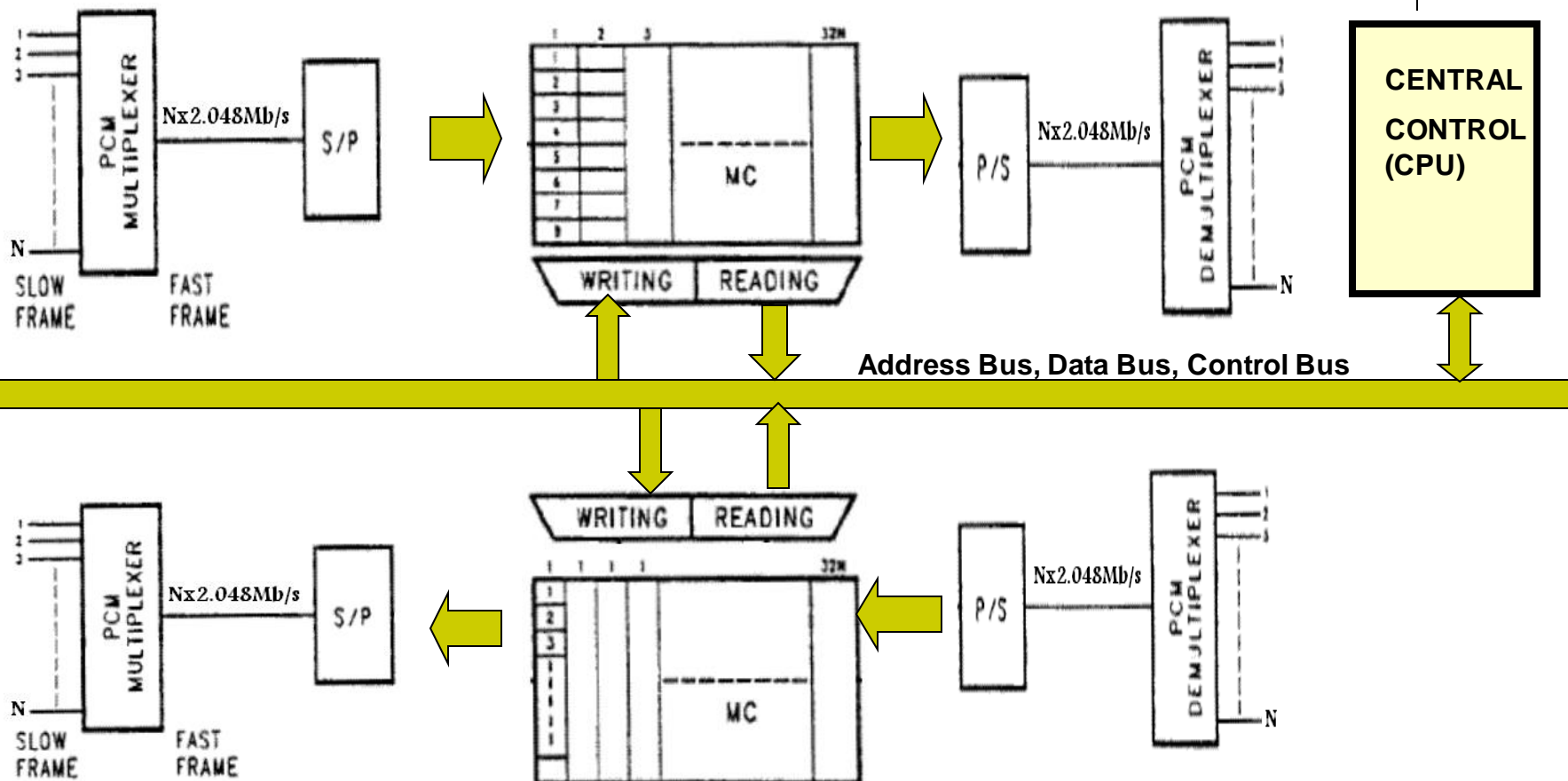
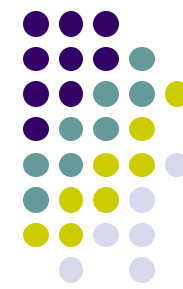
Monday, September 26 2016



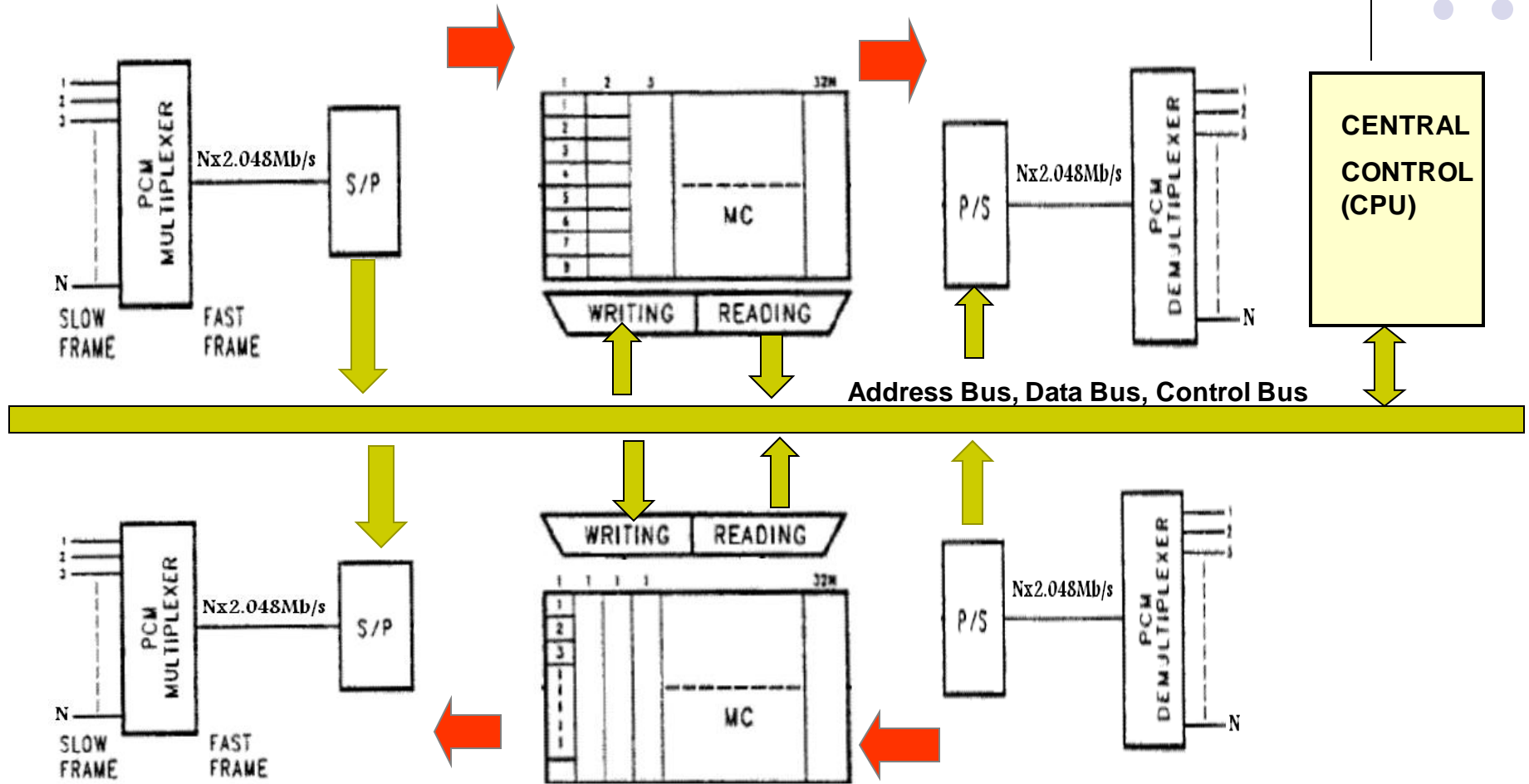
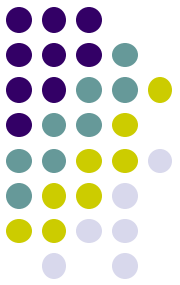
BASIC SIGNAL INTO THE SWITCH



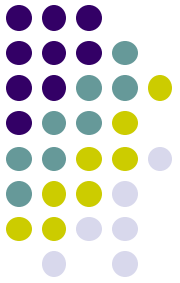
PRACTICAL IMPLEMENTATION



PRACTICAL IMPLEMENTATION

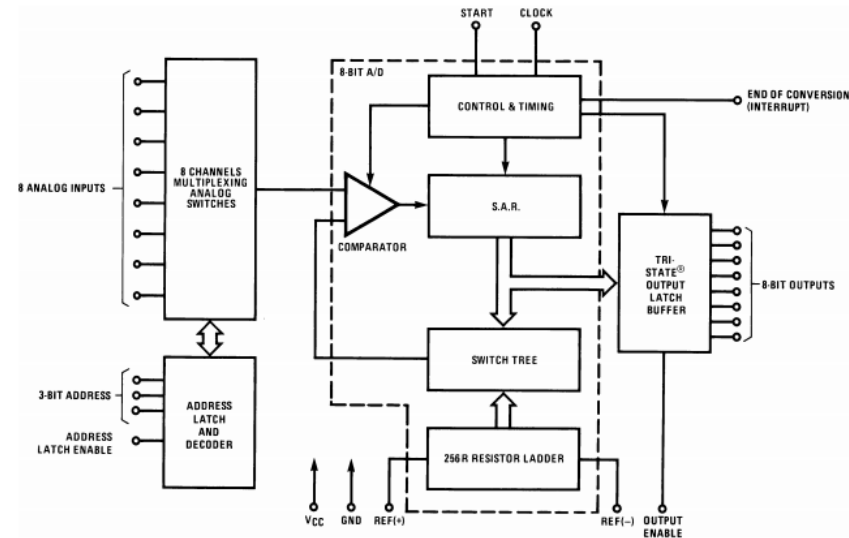


EXAMPLE OF DIGITAL MULTIPLEXER

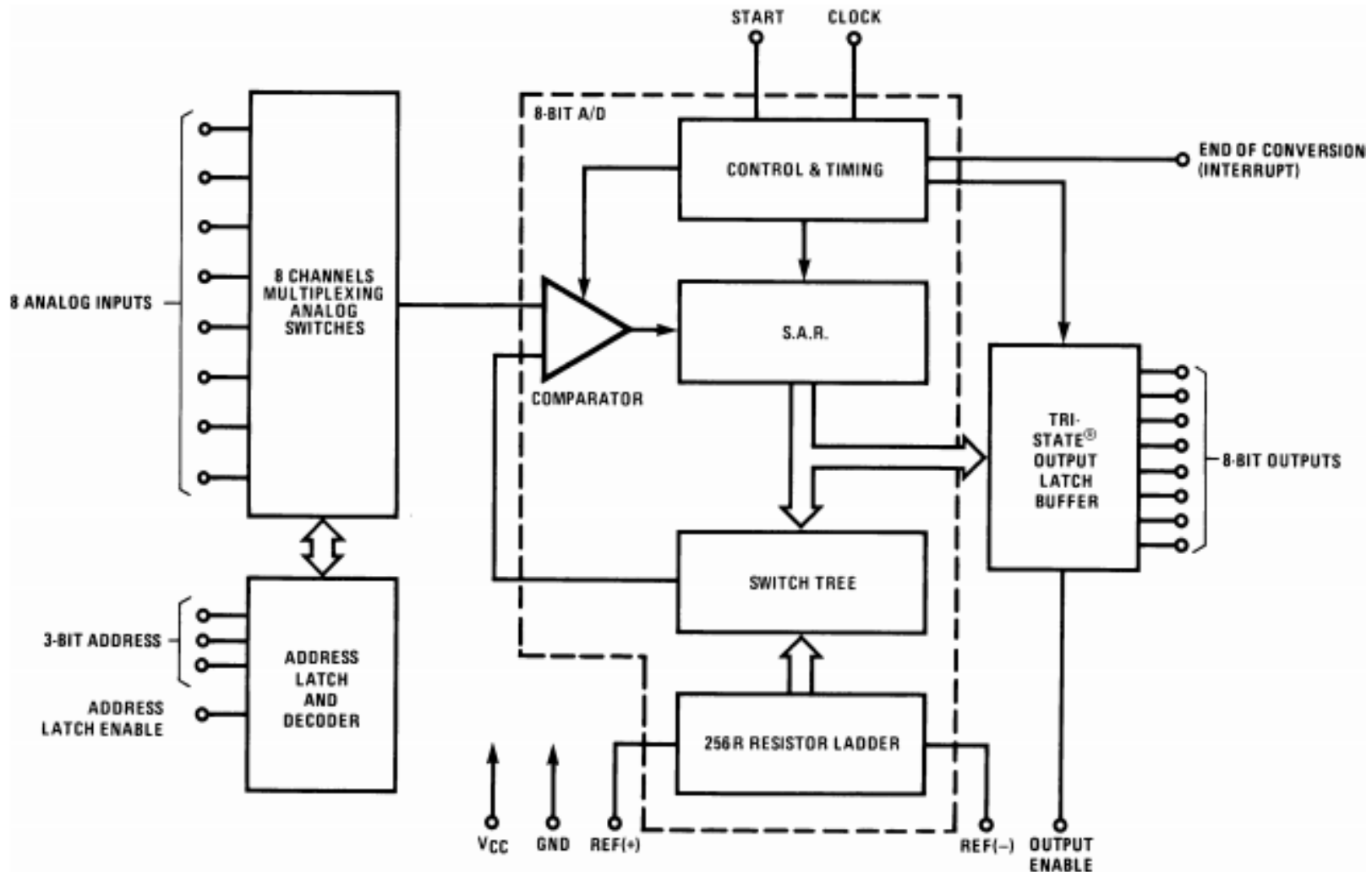
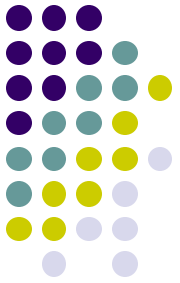


ADC 0808 is one of the most commonly used Analog to Digital Converter(ADC), It consists of:

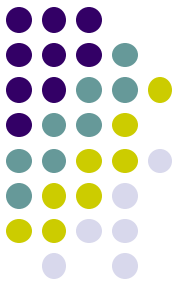
1. Eight-bit Analogue-to-digital converter featuring:
 - a) impedance chopper stabilized comparator
 - b) 256R voltage comparator with successive approximation register
2. Eight-channel Multiplexer that can directly access any of the 8-analogue channels
3. Micro-processor compatible



BLOCK DIAGRAM OF ADC0808

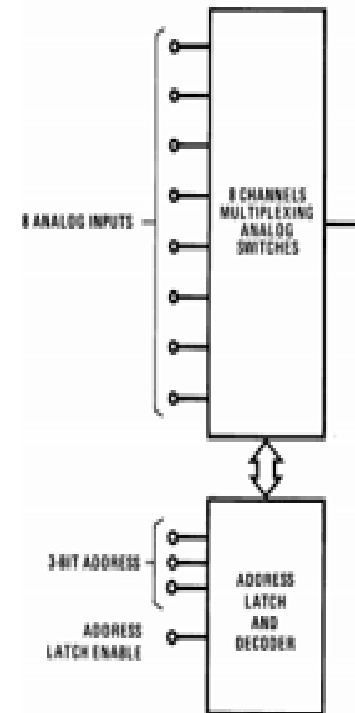


ANALOG CHANNEL SELECTION

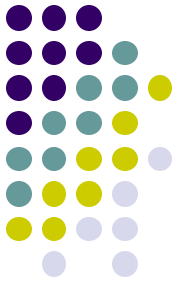


- Any of the analogue input channel can be selected by using the address decoder

SELECTED ANALOG CHANNEL	ADDRESS LINE		
	C	B	A
IN0	L	L	L
IN1	L	L	H
IN2	L	H	L
IN3	L	H	H
IN4	H	L	L
IN5	H	L	H
IN6	H	H	L
IN7	H	H	H

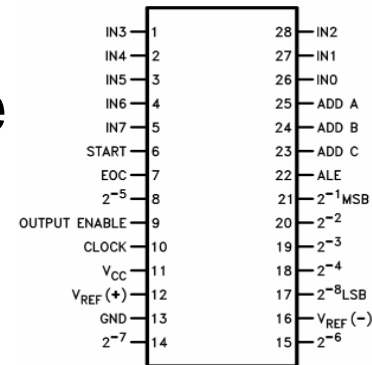


ADC 0808 PACKAGES

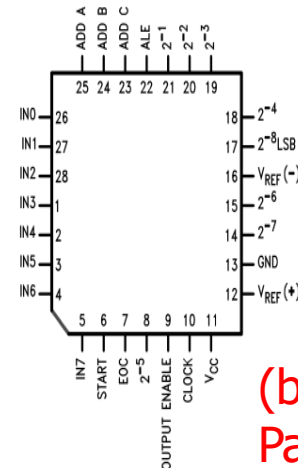


The Integrated Circuit is available in two packages, i.e

- **Dual Inline Package (DIP)** Package
- **Plastic Leaded Chip Carrier (PLCC)** package.



(a) DIP Package



(b) PLCC Package