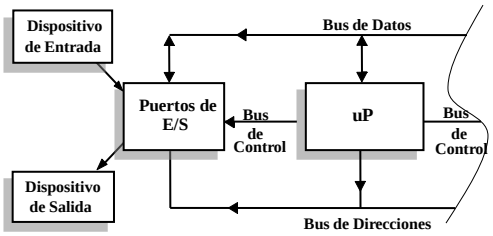
Arquitectura de Computadoras

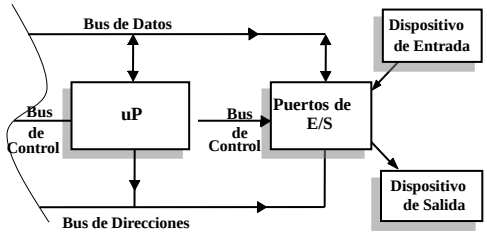
Un enfoque hacia sistemas empotrados (Embedded Systems)

Sección de Entrada-Salida

Puertos



Puertos



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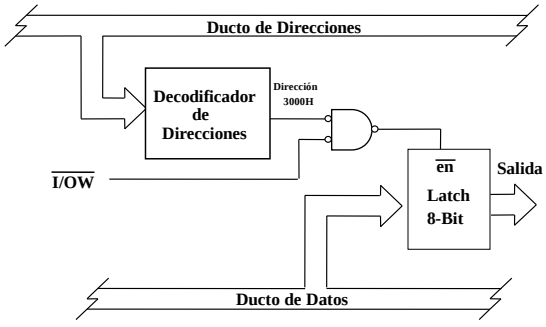
Puertos de Salida



Lenguaje Ensamblador

```
MOV AL,00H
MOV DX,3000H
OUT DX,AL
```

Lenguaje C

```
outportb(0x3000,0);
```

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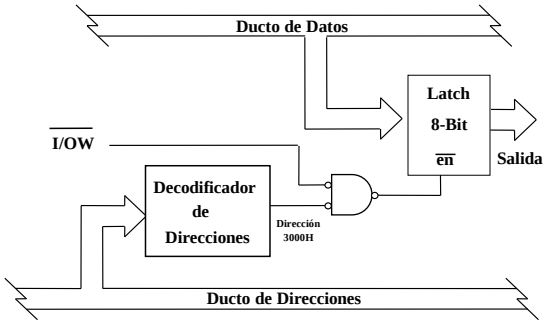
Puertos de Salida



Lenguaje Ensamblador

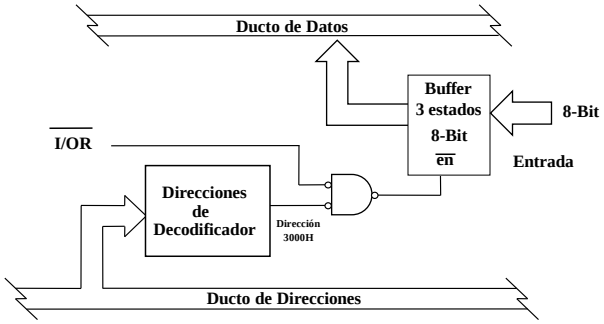
```
MOV AL,00H
MOV DX,3000H
OUT DX,AL
```

Lenguaje C

```
outportb(0x3000,0);
```

5

Puertos de Salida



Lenguaje Ensamblador

```
MOV DX,3000H
IN  AL,DX
```

Lenguaje C

```
dato = inportb(0x3000);
```

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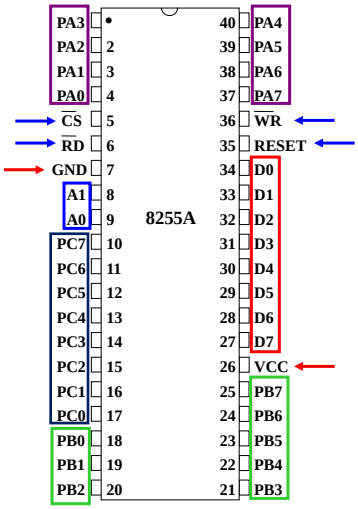
PPI-8255



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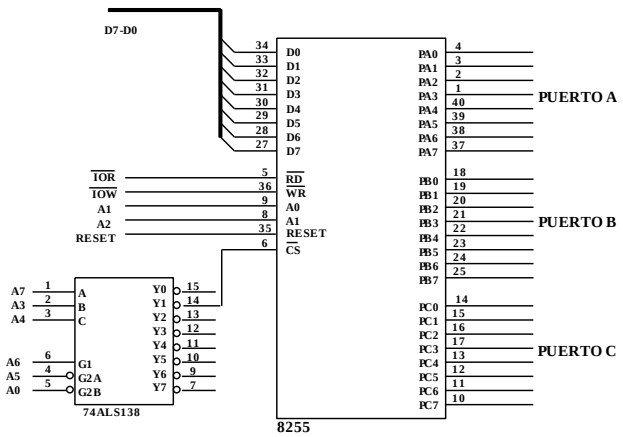
PPI-8255



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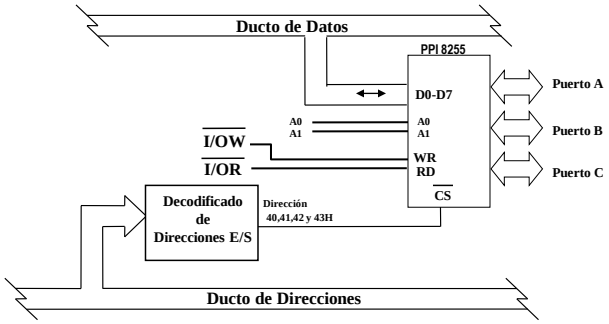
Puertos de Salida



Lenguaje Ensamblador

```
MOV AL,00H
MOV DX,42H
OUT DX,AL
```

Lenguaje C

```
outportb(0x42,0);
```

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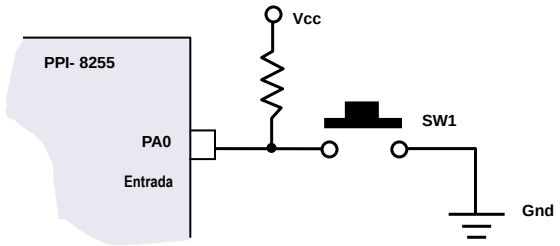
Lectura de Interruptor (SW)



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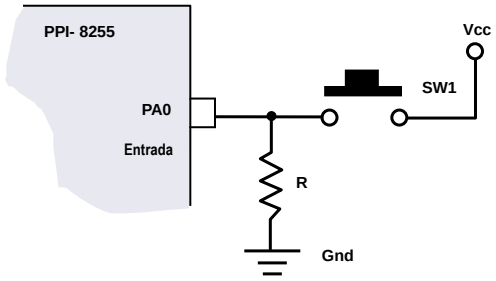
Lectura de Interruptor (SW)



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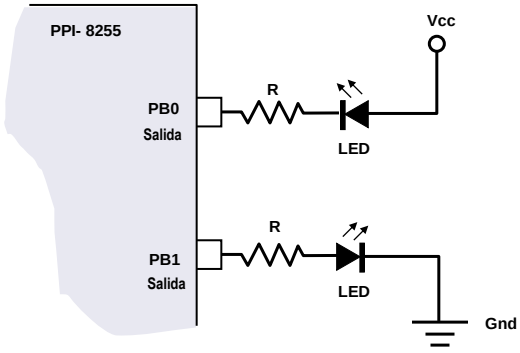
Activación de un LED (indicador)



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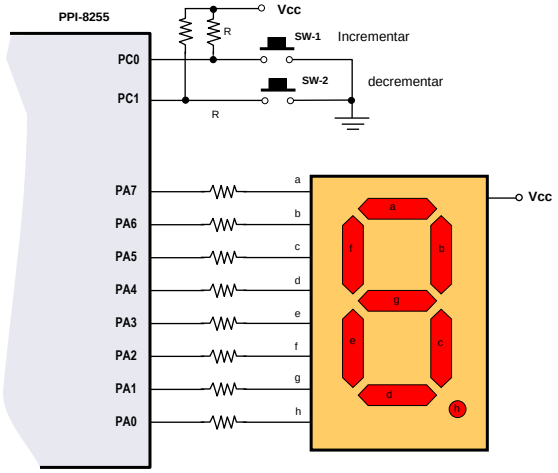
Indicador de 7 Segmentos e Interruptores



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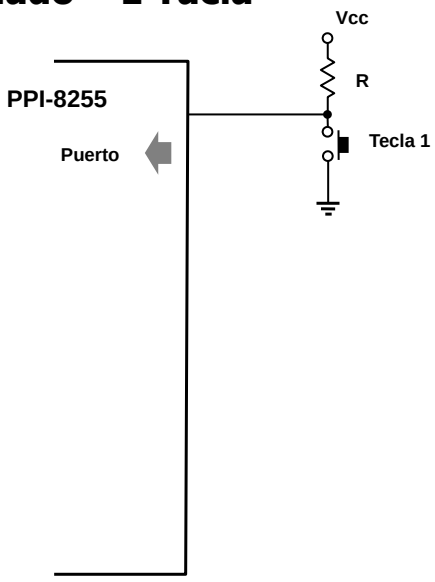
Teclado – 1 Tacla



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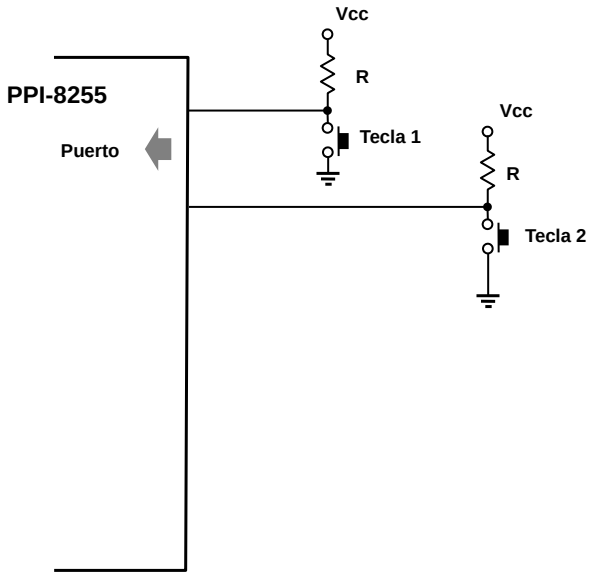
Teclado – n Taclas



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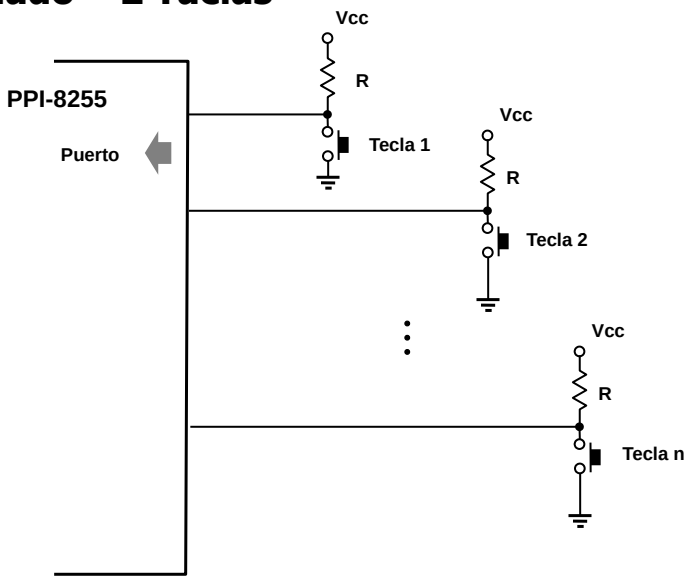
Teclado – 2 Taclas



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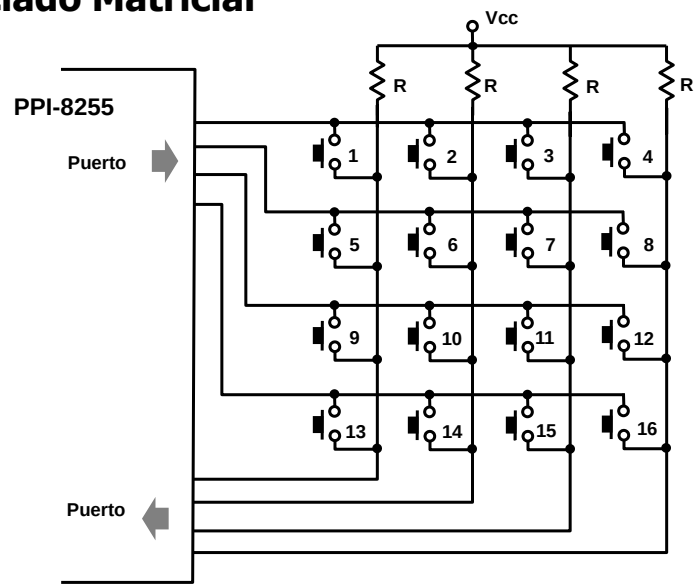
Teclado Matricial



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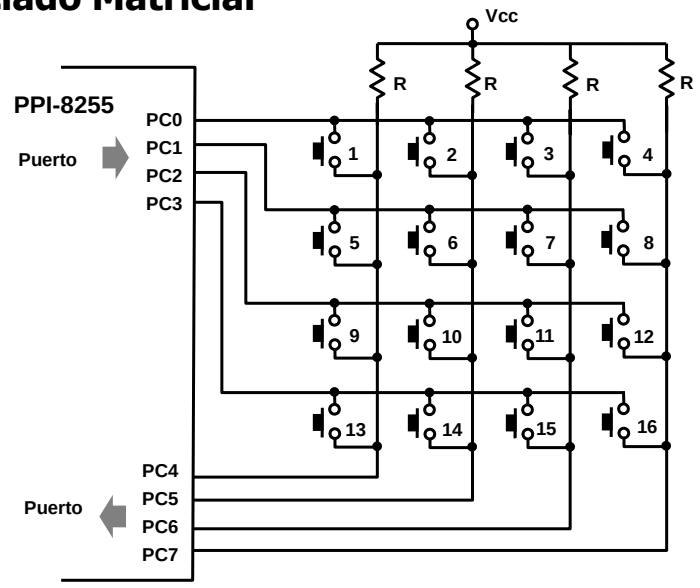
Teclado Matricial



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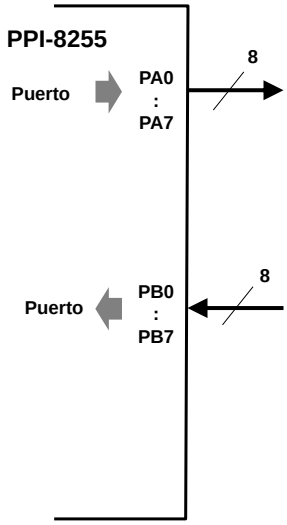
Teclado Matricial



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