



8251 Adresleme				
$C/\overline{D}$	$\overline{RD}$	$\overline{WR}$	Yazmaç	
0	0	1	Data $\rightarrow \mu P$	
0	1	0	$\mu P \rightarrow$ Data	
1	0	1	Status $\rightarrow \mu P$	
1	1	0	$\mu P \rightarrow$ Mode, Control, Sync	

8251 Mod Yazmacı (Senkron)							
$D_7$	$D_6$	$D_5$	$D_4$	$D_3$	$D_2$	$D_1$	$D_0$
SCS	ESD	EP	PEN	$L_2$	$L_1$	0	0

SCS: Sync karakter sayısı. 0: 2 sync, 1: 1 sync

ESD: External sync detect. 0: SYNDET output, 1: SYNDET input.

8251 Kontrol Yazmacı							
$D_7$	$D_6$	$D_5$	$D_4$	$D_3$	$D_2$	$D_1$	$D_0$
EH	IR	RTS	ER	SBRK	RxE	DTR	TxE

IR: Internal reset. ER: Clear error bits. SBRK: Break transmit, forcing TxD low.

8251 Status Yazmacı							
$D_7$	$D_6$	$D_5$	$D_4$	$D_3$	$D_2$	$D_1$	$D_0$
DSR	SYNDET	FE	OE	PE	TxE	RxRDY	TxRDY

FE: Framing error. OE: Overrun error. PE: Parity error.

8251 Mod Yazmacı (Asenkron)							
$D_7$	$D_6$	$D_5$	$D_4$	$D_3$	$D_2$	$D_1$	$D_0$
$S_2$	$S_1$	$EP$	$PEN$	$L_2$	$L_1$	$B_2$	$B_1$

$S_2$	$S_1$	Stop biti sayısı
0	0	Invalid
0	1	1 stop biti
1	0	1.5 stop biti
1	1	2 stop biti

$EP$	Parity
0	Odd parity
1	Even parity

$PEN$	Parity enable
0	Parity yok
1	Parity var

$L_2$	$L_1$	Data bit sayısı
0	0	5
0	1	6
1	0	7
1	1	8

$B_2$	$B_1$	Baud rate factor
0	0	Senkron mod
0	1	1
1	0	16
1	1	64

8254 Status							
$D_7$	$D_6$	$D_5$	$D_4$	$D_3$	$D_2$	$D_1$	$D_0$
$OUTPUT$	Null Count	$RW_1$	$RW_0$	$M_2$	$M_1$	$M_0$	$BCD$

8254 Adresleme		
$A_1$	$A_0$	Yazmaç
0	0	Counter0, Status0
0	1	Counter1, Status1
1	0	Counter2, Status2
1	1	Control

8254 Kontrol Yazmacı							
$D_7$	$D_6$	$D_5$	$D_4$	$D_3$	$D_2$	$D_1$	$D_0$
$SC_1$	$SC_0$	$RW_1$	$RW_0$	$M_2$	$M_1$	$M_0$	$BCD$

$SC_1$	$SC_0$	SC – Select Counter
0	0	Counter0
0	1	Counter1
1	0	Counter2
1	1	Read Back Command

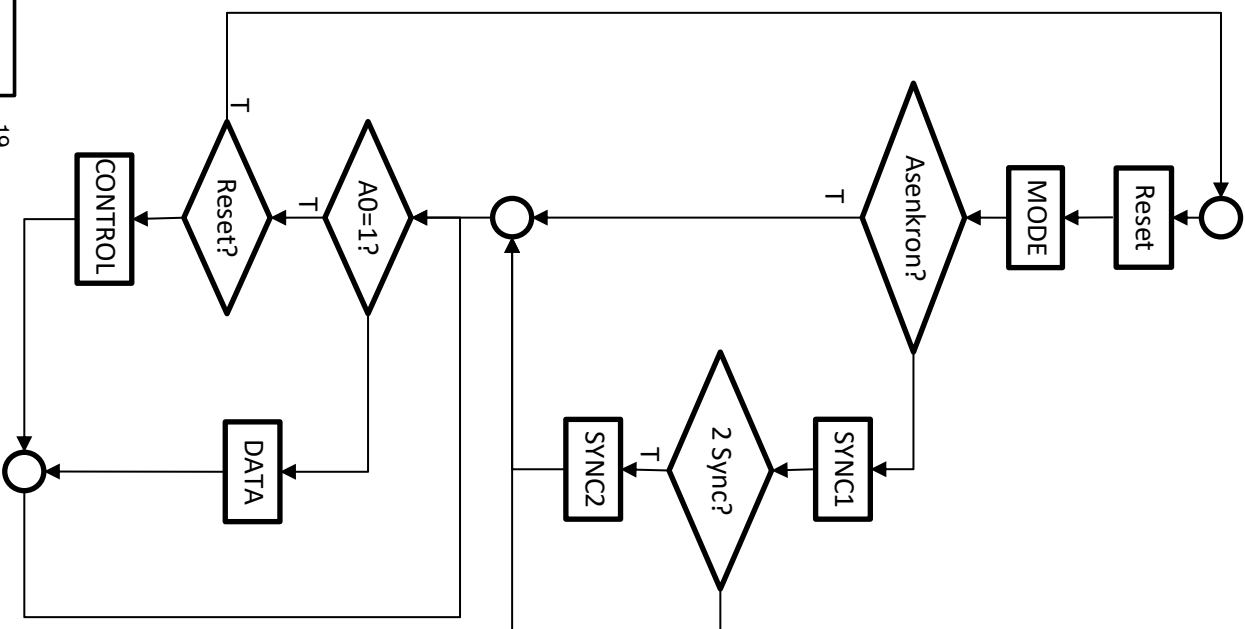
$M_2$	$M_1$	$M_0$	M – Mod
0	0	0	Mod 0
0	0	1	Mod 1
X	1	0	Mod 2
X	1	1	Mod 3
1	0	0	Mod 4
1	0	1	Mod 5

$RW_1$	$RW_0$	RW – Read/Write
0	0	Counter Latch Command
0	1	LSb
1	0	MSb
1	1	Önce LSB, sonra MSb

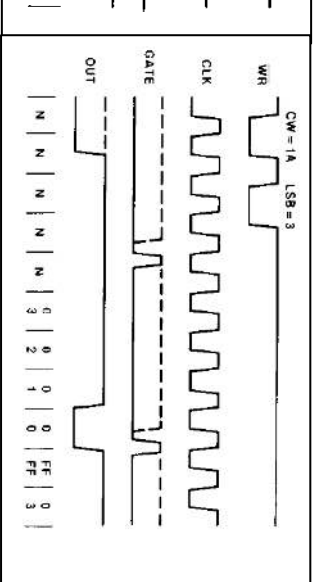
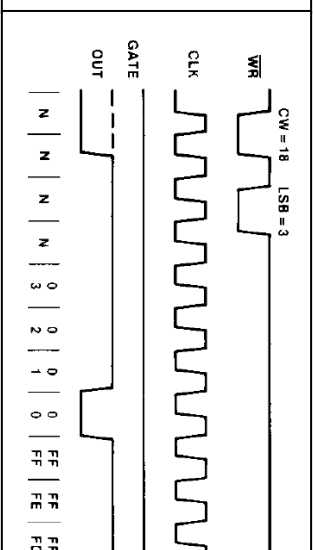
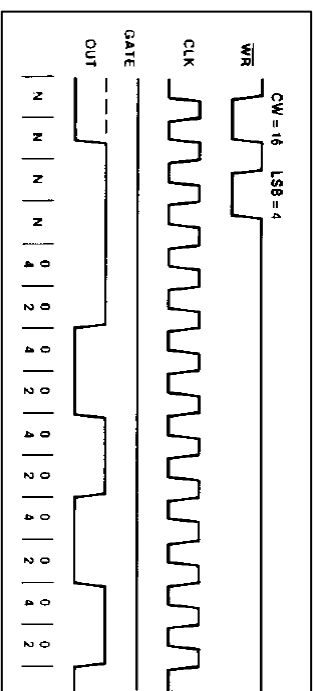
$BCD$	Sayma
0	Binary
1	Binary Coded Decimal

8254 Read Back Command							
$D_7$	$D_6$	$D_5$	$D_4$	$D_3$	$D_2$	$D_1$	$D_0$
1	1	$\overline{COUNT}$	$\overline{STATUS}$	$CNT_2$	$CNT_1$	$CNT_0$	0

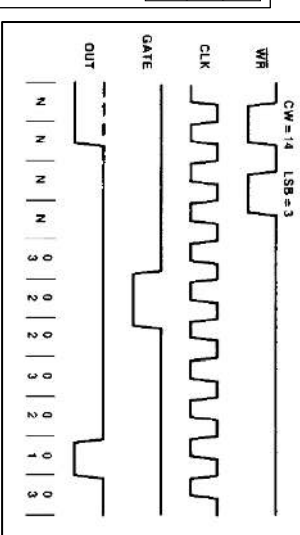
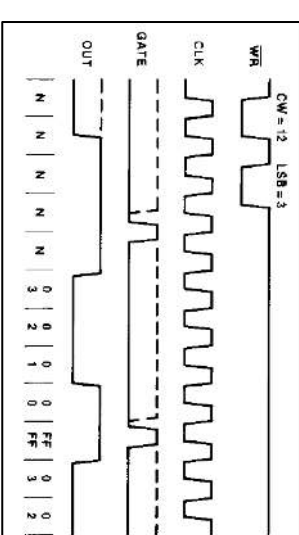
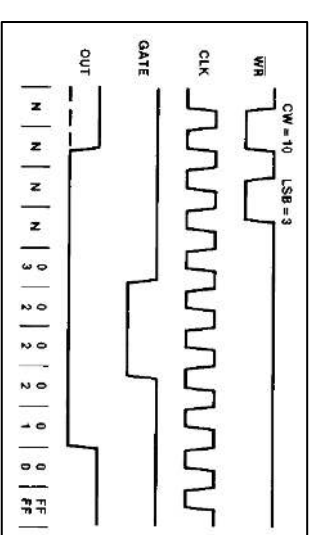
$\overline{COUNT} = 0$  : Sayma değeri tut  
 $\overline{STATUS} = 1$  : Durum tut  
 $CNT_2 = 1$  : Sayıcı 2 için tut  
 $CNT_1 = 1$  : Sayıcı 1 için tut  
 $CNT_0 = 1$  : Sayıcı0 için tut



21	D[0..7]	TxD	19
20	RESET		
12	CLK	TxRDY	15
10	C/D	TxEMPTY	18
13	WR	TxC	9
11	RD	RxD	3
24	CS	RxD	14
22	DTR	RxRDY	25
23	DSR	RxC	16
17	RTS	SYNDET	
17	CTS		

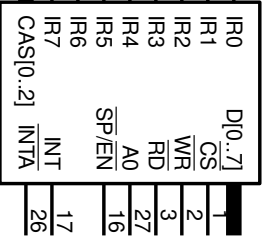
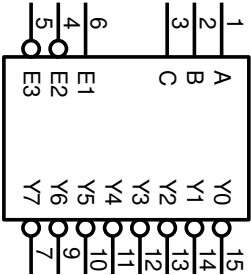


8	D0	CLK0	9
7	D1	GATE0	11
6	D2	OUT0	10
5	D3		
4	D4	CLK1	15
3	D5	GATE1	14
2	D6	OUT1	13
1	D7		
22	RD	CLK2	18
23	WR	GATE2	16
19	A0	OUT2	17
20	A1		
21	CS		





74138 3x8 Dekoder Fonksiyon Tablosu														
INPUTS					OUTPUTS								SELECTED OUTPUT	
ENABLE			SELECT											
E1	E2	E3	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6		Y7
L	X	X	X	X	X	H	H	H	H	H	H	H	H	NONE
X	X	H	X	X	X	H	H	H	H	H	H	H	H	NONE
X	H	X	X	X	X	H	H	H	H	H	H	H	H	NONE
H	L	L	L	L	L	L	H	H	H	H	H	H	H	Y0
H	L	L	L	L	L	H	L	H	H	H	H	H	H	Y1
H	L	L	L	L	H	H	L	H	H	H	H	H	H	Y2
H	L	L	L	L	H	H	H	L	H	L	H	H	H	Y3
H	L	L	L	L	L	H	H	H	L	L	H	H	H	Y4
H	L	L	L	L	H	H	H	H	H	L	L	H	H	Y5
H	L	L	L	H	L	H	H	H	H	H	L	L	H	Y6
H	L	L	L	H	H	H	H	H	H	H	H	L	L	Y7
X : Don't Care, L : Low, H : High														



8259 ICW <sub>1</sub>									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
0	X	X	X	1	LTIM	0	SINGL	IC <sub>4</sub>	
LTIM	Açıklama								
0	Kenar tetikleme								
1	Seviye tetikleme								

8259 ICW <sub>2</sub>									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
1	A <sub>7</sub>	A <sub>6</sub>	A <sub>5</sub>	A <sub>4</sub>	A <sub>3</sub>	X	X	X	
(A <sub>7</sub> A <sub>6</sub> A <sub>5</sub> A <sub>4</sub> A <sub>3</sub> 000) <sub>2</sub> IR0 için kesme isteği adresi									
8259 ICW <sub>3</sub> SINGL=0 ise (Master)									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
1	S <sub>7</sub>	S <sub>6</sub>	S <sub>5</sub>	S <sub>4</sub>	S <sub>3</sub>	S <sub>2</sub>	S <sub>1</sub>	S <sub>0</sub>	
S <sub>i</sub> Açıklama									
0	IR <sub>i</sub> 'ye slave bağlı değil								
1	IR <sub>i</sub> 'ye slave bağlı								

8259 ICW <sub>3</sub> SINGL=0 ise (Slave)									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
1	0	0	0	0	0	ID <sub>2</sub>	ID <sub>1</sub>	ID <sub>0</sub>	
(ID <sub>2</sub> ID <sub>1</sub> ID <sub>0</sub> ) <sub>2</sub> Slave ID									
8259 ICW <sub>4</sub>									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
1	0	0	0	SFNM	BUF	M/S	AEOI	μP	
BUF Açıklama									
0	Non-buffered								
1	Buffered slave								
1	Buffered master								

8259 ICW <sub>3</sub> SINGL=0 ise (Slave)									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
1	0	0	0	0	0	ID <sub>2</sub>	ID <sub>1</sub>	ID <sub>0</sub>	
(ID <sub>2</sub> ID <sub>1</sub> ID <sub>0</sub> ) <sub>2</sub> Slave ID									
8259 ICW <sub>4</sub>									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
1	0	0	0	SFNM	BUF	M/S	AEOI	μP	
BUF Açıklama									
0	Non-buffered								
1	Buffered slave								
1	Buffered master								

8259 ICW <sub>3</sub> SINGL=0 ise (Slave)									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
1	0	0	0	0	0	ID <sub>2</sub>	ID <sub>1</sub>	ID <sub>0</sub>	
(ID <sub>2</sub> ID <sub>1</sub> ID <sub>0</sub> ) <sub>2</sub> Slave ID									
8259 ICW <sub>4</sub>									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
1	0	0	0	SFNM	BUF	M/S	AEOI	μP	
BUF Açıklama									
0	Non-buffered								
1	Buffered slave								
1	Buffered master								

8259 ICW <sub>3</sub> SINGL=0 ise (Slave)									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
1	0	0	0	SFNM	BUF	M/S	AEOI	μP	
BUF Açıklama									
0	Non-buffered								
1	Buffered slave								
1	Buffered master								

AEOI=1 otomatik kesme sonlandırma  
μP=1 8086 için  
SFNM=0, BUF=0, M/S=0 kullanılacak

8259 OCW <sub>1</sub>									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
1	M <sub>7</sub>	M <sub>6</sub>	M <sub>5</sub>	M <sub>4</sub>	M <sub>3</sub>	M <sub>2</sub>	M <sub>1</sub>	M <sub>0</sub>	
M <sub>i</sub> Açıklama									
0	Mask reset								
1	Mask set								

8259 OCW <sub>2</sub>									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
0	R	SL	EOI	0	0	L <sub>2</sub>	L <sub>1</sub>	L <sub>0</sub>	

8259 OCW <sub>3</sub>									
A <sub>0</sub>	D <sub>7</sub>	D <sub>6</sub>	D <sub>5</sub>	D <sub>4</sub>	D <sub>3</sub>	D <sub>2</sub>	D <sub>1</sub>	D <sub>0</sub>	IC <sub>4</sub>
0	0	ESMM	SMIM	0	1	P	RR	RIS	

