



**THE DATASHEET OF  
Z0853008VSC**





**Z08030/8530**

***Serial Communications  
Controller***

**Customer Procurement Specification**

PS011301-0601



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Z8030 AC CHARACTERISTICS

Z8030 AC CHARACTERISTICS (Continued)

Number	Symbol	Parameter	4 MHz		6 MHz		8 MHz		Notes*†
			Min	Max	Min	Max	Min	Max	
1	TwAS	AS Low Width	70 <sup>a</sup>		50 <sup>a</sup>		35 <sup>a</sup>		
2	TdS(AS)	DS ↑ to AS ↓ Delay	50 <sup>c</sup>		25 <sup>c</sup>		15 <sup>c</sup>		
3	TcSO(AS)	CS <sub>0</sub> to AS ↑ Setup Time	0 <sup>a</sup>		0 <sup>a</sup>		0 <sup>a</sup>		1
4	ThCS(AS)	CS <sub>0</sub> to AS ↑ Hold Time	60 <sup>a</sup>		40 <sup>a</sup>		30 <sup>a</sup>		1
5	TcCS1(DS)	CS <sub>1</sub> to DS ↓ Setup Time	100 <sup>a</sup>		80 <sup>a</sup>		65 <sup>a</sup>		1
6	ThCS1(DS)	CS <sub>1</sub> to DS ↑ Hold Time	55 <sup>c</sup>		40 <sup>c</sup>		30 <sup>c</sup>		1
7	TtA(AS)	RTACK to AS ↑ Setup Time	10 <sup>c</sup>		10 <sup>c</sup>		10 <sup>c</sup>		
8	ThA(AS)	RTACK to AS ↑ Hold Time	250 <sup>a</sup>		200 <sup>a</sup>		150 <sup>a</sup>		
9	TtR(WDS)	RW (Read) to DS ↓ Setup Time	100 <sup>a</sup>		80 <sup>a</sup>		65 <sup>a</sup>		
10	ThR(WDS)	RW to DS ↑ Hold Time	55 <sup>a</sup>		40 <sup>a</sup>		35 <sup>a</sup>		
11	TtR(WDS)	RW (Write) to DS ↓ Setup Time	0 <sup>c</sup>		0 <sup>c</sup>		0 <sup>c</sup>		
12	TcAS(DS)	AS ↑ to DS ↓ Delay	60 <sup>c</sup>		40 <sup>c</sup>		30 <sup>c</sup>		
13	TwCS	DS Low Width	240 <sup>a</sup>		200 <sup>a</sup>		150 <sup>a</sup>		
14	TtC	Valid Access Recovery Time	4TcPC <sup>a</sup>		4TcPC <sup>a</sup>		4TcPC <sup>a</sup>		2
15	TtA(AS)	Address to AS ↑ Setup Time	30 <sup>a</sup>		10 <sup>a</sup>		10 <sup>a</sup>		1
16	ThA(AS)	Address to AS ↑ Hold Time	50 <sup>a</sup>		30 <sup>a</sup>		25 <sup>a</sup>		1
17	TtD(WDS)	Write Data to DS ↓ Setup Time	30 <sup>a</sup>		20 <sup>a</sup>		15 <sup>a</sup>		
18	ThD(WDS)	Write Data to DS ↑ Hold Time	30 <sup>a</sup>		20 <sup>a</sup>		20 <sup>a</sup>		
19	TcDS(DA)	DS ↓ to Data Active Delay	0 <sup>c</sup>		0 <sup>c</sup>		0 <sup>c</sup>		
20	TcDS(DR)	DS ↑ to Read Data Not Valid Delay	0 <sup>a</sup>		0 <sup>a</sup>		0 <sup>a</sup>		
21	TcDS(DR)	DS ↓ to Read Data Valid Delay	250 <sup>a</sup>		180 <sup>a</sup>		140 <sup>a</sup>		
22	TcAS(DR)	AS ↑ to Read Data Valid Delay	520 <sup>a</sup>		300 <sup>a</sup>		250 <sup>a</sup>		

NOTES:

1. Parameter does not apply to interrupt acknowledge transactions.
2. Parameter applies only between transactions involving the SCC.

\*Times are preliminary and subject to change.

†Units in nanoseconds (ns).

a Tested

b Guaranteed by Design

c Guaranteed by Characterization

Number	Symbol	Parameter
23	TdS(DR)	DS ↑ to Read Data Post Delay
24	TtA(DR)	Address Required Valid to Read Data Valid Delay
25	TtD(W)	DS ↓ to Wait Valid Delay
26	TcD(WFEC)	DS ↑ to W/REC Not Valid Delay
27	TcD(WFEC)	DS ↓ to DTR/REC Not Valid Delay
28	TtA(NT)	AS ↑ to RT Valid Delay
29	TtA(GDA)	AS ↑ to DS ↓ (Acknowledge) Delay
30	TtA(GDA)	DS (Acknowledge) Low Width
31	TtD(A(DR))	DS ↓ (Acknowledge) to Read Data Valid Delay
32	TtE(GDA)	EI to DS ↓ (Acknowledge) Setup Time
33	TtE(GDA)	EI to DS ↑ (Acknowledge) Hold Time
34	TtE(WFEC)	EI to EIO Delay
35	TtA(GEC)	AS ↑ to EIO Delay
36	TtD(A(NT))	DS ↓ (Acknowledge) to RT Inactive Delay
37	TcD(ASQ)	DS ↑ to AS ↓ Delay for No Reset
38	TcD(ASQ)	AS ↑ to DS ↓ Delay for No Reset
39	TtE(B)	AS and DS Concordant Low for Reset
40	TtPCh	PCLK Low Width
41	TtPCh	PCLK High Width
42	TtPC	PCLK Cycle Time
43	TtPC	PCLK Rise Time
44	TtPC	PCLK Fall Time

NOTES:

1. Post delay is defined as the time required for a 5.0V change in the output.
2. Operation output, measured with open-drain load.
3. Parameter is system dependent. For any Z80C in the delay chain, TdS(DR) or TcD(WFEC) for the Z80C, and TtE(WFEC) for the Z80C.
4. Parameter applies only to Z80C pulling RST Low at the beginning of the internal clock cycle.
5. Internal circuitry subject to the reset provided by the Z80 to be acceptable.
6. Times are preliminary and subject to change. All timing references are to the Z80.

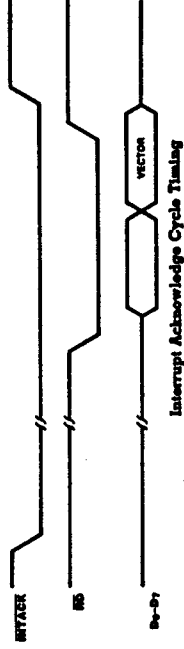
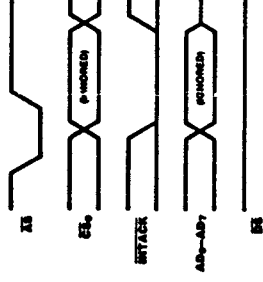
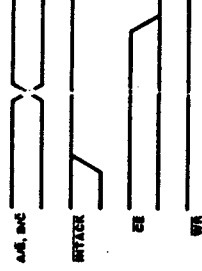
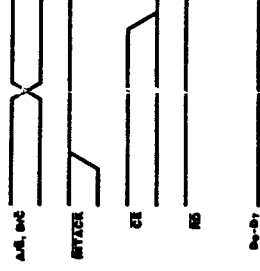
780530 Z8530 SYSTEM TIMING AC CHARACTERISTICS

Number	Symbol	Parameter	4 MHz		6 MHz		8 MHz		Notes†
			Min	Max	Min	Max	Min	Max	
1	TdRXQ(REQ)	RxC ↓ to W/REQ Valid Delay	8	12	8	12	8	12	2
2	TdRXQ(W)	RxC ↑ to Wait Inactive Delay	8	14	8	14	8	14	1,2
3	TdRXQ(SY)	RxC ↑ to SYNC Valid Delay	4	7	4	7	4	7	2
4a.	TdRXQ(INT), Z8530	RxC ↑ to INT Valid Delay	10	16	10	16	10	16	1,2
4b.	TdRXQ(INT), Z8030		8	12	8	12	8	12	1,2
			+2	+3	+2	+3	+2	+3	4
5	TdTXQ(REQ)	TRC ↓ to W/REQ Valid Delay	5	8	5	8	5	8	3
6	TdTXQ(W)	TRC ↓ to Wait Inactive Delay	5	11	5	11	5	11	1,3
7	TdTXQ(DRO)	TRC ↓ DTR/REQ Valid Delay	4	7	4	7	4	7	3
8a.	TdTXQ(INT), Z8530	TRC ↓ to INT Valid Delay	6	10	6	10	6	10	1,3
8b.	TdTXQ(INT), Z8030		4	6	4	6	4	6	1,3
			+2	+3	+2	+3	+2	+3	4
9a.	TdSY(INT), Z8530	SYNC Transition to INT Valid Delay	2	6	2	6	2	6	1
9b.	TdSY(INT), Z8030		2	3	2	3	2	3	1,4
10a.	TdEXT(INT), Z8530	DOD or CTS Transition to INT Valid Delay	2	6	2	6	2	6	1
10b.	TdEXT(INT), Z8030		2	3	2	3	2	3	1,4

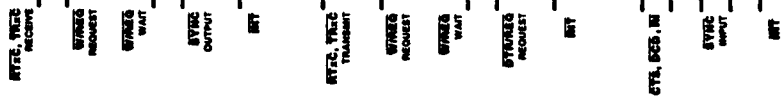
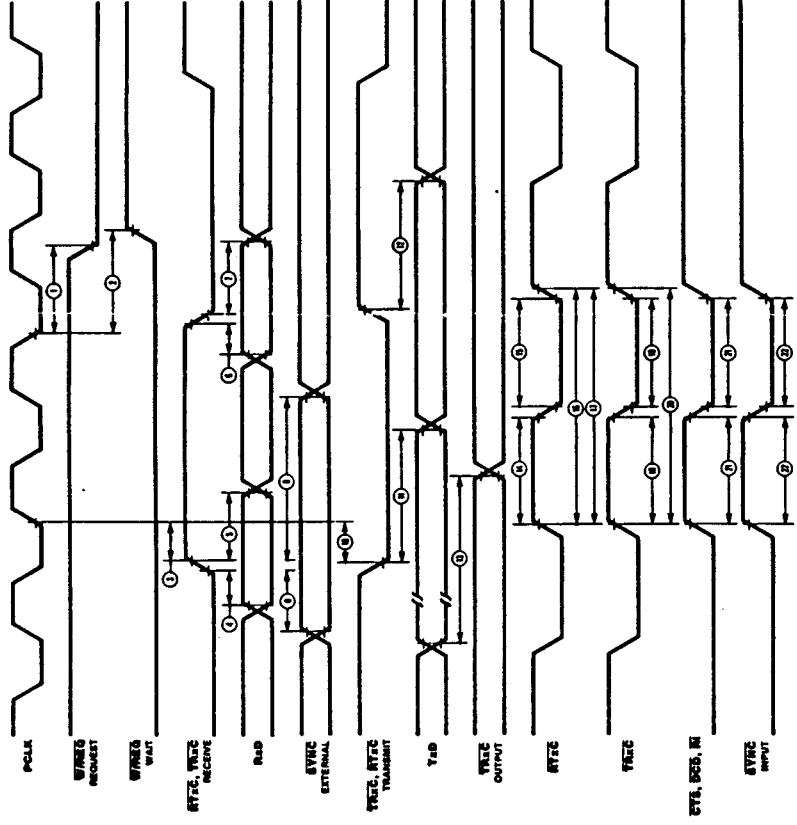
NOTES:

- Open-drain output, measured with open-drain test load
- RxC is RTrxC or TRxC, whichever is supplying the receive clock.
- TrC is TRxC or RTxC, whichever is supplying the transmit clock.
- Units equal to NS.

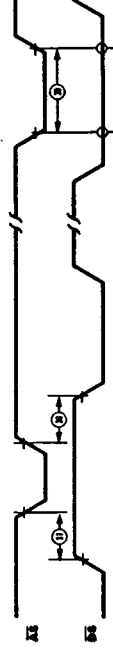
\*Timings are preliminary and subject to change.  
†Units equal to TdPC.



**General  
Timing**



**Reset  
Timing  
Z8030**



## Z8530 AC CHARACTERISTICS

## Z8530 AC CHARACTERISTICS (Continued)

Number	Symbol	Parameter	4 MHz		6 MHz		8 MHz		Notes <sup>††</sup>
			Min	Max	Min	Max	Min	Max	
1	TwPCI	PCLK Low Width	105 <sup>a</sup>	2000 <sup>a</sup>	70 <sup>a</sup>	1000 <sup>a</sup>	50 <sup>a</sup>	1000 <sup>a</sup>	
2	TwPCh	PCLK High Width	105 <sup>a</sup>	2000 <sup>a</sup>	70 <sup>a</sup>	1000 <sup>a</sup>	50 <sup>c</sup>	1000 <sup>a</sup>	
3	TIPC	PCLK Fall Time		20 <sup>a</sup>		10 <sup>a</sup>		10 <sup>a</sup>	
4	TrPC	PCLK Rise Time		20 <sup>a</sup>		10 <sup>a</sup>		10 <sup>a</sup>	
5	TcPC	PCLK Cycle Time	250 <sup>a</sup>	4000 <sup>a</sup>	165 <sup>a</sup>	2000 <sup>a</sup>	125 <sup>a</sup>	2000 <sup>a</sup>	
6	TsA(WR)	Address to $\overline{WR}$ ↓ Setup Time	80 <sup>a</sup>		80 <sup>a</sup>		70 <sup>a</sup>		
7	TtA(WR)	Address to $\overline{WR}$ ↑ Hold Time	0 <sup>c</sup>		0 <sup>c</sup>		0 <sup>c</sup>		
8	TsA(RD)	Address to $\overline{RD}$ ↓ Setup Time	80 <sup>a</sup>		80 <sup>a</sup>		70 <sup>a</sup>		
9	TtA(RD)	Address to $\overline{RD}$ ↑ Hold Time	0 <sup>c</sup>		0 <sup>c</sup>		0 <sup>c</sup>		
10	TsA(PC)	INTACK to PCLK ↑ Setup Time	10 <sup>a</sup>		10 <sup>a</sup>		10 <sup>a</sup>		
11	TsA(WR)	INTACK to $\overline{WR}$ ↓ Setup Time	200 <sup>a</sup>		160 <sup>a</sup>		145 <sup>a</sup>		1
12	TtA(WR)	INTACK to $\overline{WR}$ ↑ Hold Time	0 <sup>c</sup>		0 <sup>c</sup>		0 <sup>c</sup>		
13	TsA(RD)	INTACK to $\overline{RD}$ ↓ Setup Time	200 <sup>a</sup>		160 <sup>a</sup>		145 <sup>a</sup>		1
14	TtA(RD)	INTACK to $\overline{RD}$ ↑ Hold Time	0 <sup>a</sup>		0 <sup>a</sup>		0 <sup>a</sup>		
15	TtA(PC)	INTACK to PCLK ↑ Hold Time	100 <sup>a</sup>		100 <sup>a</sup>		85 <sup>a</sup>		
16	TsCE(WR)	$\overline{CE}$ Low to $\overline{WR}$ ↓ Setup Time	0 <sup>a</sup>		0 <sup>a</sup>		0 <sup>a</sup>		
17	TtCE(WR)	$\overline{CE}$ to $\overline{WR}$ ↑ Hold Time	0 <sup>a</sup>		0 <sup>a</sup>		0 <sup>a</sup>		
18	TsCE(WR)	$\overline{CE}$ High to $\overline{WR}$ ↓ Setup Time	100 <sup>a</sup>		70 <sup>a</sup>		60 <sup>a</sup>		
19	TtCE(RD)	$\overline{CE}$ Low to $\overline{RD}$ ↓ Setup Time	0 <sup>a</sup>		0 <sup>a</sup>		0 <sup>a</sup>		1
20	TtCE(RD)	$\overline{CE}$ to $\overline{RD}$ ↑ Hold Time	0 <sup>a</sup>		0 <sup>a</sup>		0 <sup>a</sup>		1
21	TsCEn(RD)	$\overline{CE}$ High to $\overline{RD}$ ↓ Setup Time	100 <sup>a</sup>		70 <sup>a</sup>		60 <sup>a</sup>		1
22	TwRD	$\overline{RD}$ Low Width	390 <sup>a</sup>		200 <sup>a</sup>		150 <sup>a</sup>		1
23	TdRD(DRA)	$\overline{RD}$ ↓ to Read Data Active Delay	0 <sup>c</sup>		0 <sup>c</sup>		0 <sup>c</sup>		
24	TdRD(DR)	$\overline{RD}$ ↑ to Read Data Not Valid Delay	0 <sup>a</sup>		0 <sup>a</sup>		0 <sup>a</sup>		
25	TdRD(DR)	$\overline{RD}$ ↓ to Read Data Valid Delay	250 <sup>a</sup>		180 <sup>a</sup>		140 <sup>a</sup>		
26	TdRD(DRz)	$\overline{RD}$ ↑ to Read Data Float Delay	70 <sup>a</sup>		45 <sup>a</sup>		40 <sup>a</sup>		2

### NOTES:

- Parameter does not apply to Interrupt Acknowledge transactions.
- Float delay is defined as the time required for a ±0.5V change at the output with a maximum dc load and minimum ac load.
- Timings are preliminary and subject to change.
- Units in nanoseconds (ns).

Number	Symbol	Parameter
27	TsA(DR)	Address Required Valid to Valid Delay <sup>†</sup>
28	TtWR	$\overline{WR}$ Low Width
29	Td(WR)	Write Data to $\overline{WR}$ ↓ Setup
30	Td(WR)	Write Data to $\overline{WR}$ ↑ Hold Time
31	Tt(WR)	$\overline{WR}$ ↓ to Wait <sup>†</sup> Valid Delay
32	Td(W)	$\overline{RD}$ ↓ Wait Valid Delay
33	Tt(WR(REQ))	$\overline{WR}$ ↓ to $\overline{WR}$ (REQ) Not Valid
34	Tt(WR(REQ))	$\overline{RD}$ ↓ to $\overline{WR}$ (REQ) Not Valid
35	Tt(WR(REQ))	$\overline{WR}$ ↓ DTR(REQ) Not Valid
36	Tt(DR(REQ))	$\overline{RD}$ ↓ to DTR(REQ) Not Valid
37	Tt(PCINT)	PCLK ↓ to INT Valid Delay
38	TtA(RD)	INTACK to $\overline{RD}$ ↓ (Acknowledge)
39	TwRDA	$\overline{RD}$ (Acknowledge) Width
40	Tt(DR(DR))	$\overline{RD}$ ↓ (Acknowledge) to Read Valid Delay
41	TtE(RDA)	EI to $\overline{RD}$ ↓ (Acknowledge) to Read Valid Delay
42	TtE(RDA)	EI to $\overline{RD}$ ↓ (Acknowledge) to Read Valid Delay
43	TtE(REQ)	EI to REQ Delay Time
44	Tt(PCREQ)	PCLK ↑ to REQ Delay
45	Tt(DR(MT))	$\overline{RD}$ ↓ to INT <sup>†</sup> Inactive Delay
46	Tt(DR(WR))	$\overline{RD}$ ↓ to $\overline{WR}$ ↓ Delay for Non-incident L <sub>1</sub>
47	Tt(WR(WR))	$\overline{WR}$ ↓ to $\overline{RD}$ ↓ Delay for Non-incident L <sub>1</sub>
48	Tt(WRES)	$\overline{WR}$ and $\overline{RD}$ coincident L <sub>1</sub> Valid Access Recovery Time
49	TtC	Valid Access Recovery Time

- NOTES:
- Parameter applies only between transactions involving the output.
  - Operation output, measured with open-circuit test load.
  - Parameter is system dependent. For any FCC in the delay chain, TtE(RDA) for the SCC, and TtE(RD) for the delay chain, TtE(RDA) for the SCC, and TtE(RD) for the delay chain.
  - Timings are preliminary and subject to change.
  - Units in nanoseconds (ns).

- Tested
- Guaranteed by Design
- Guaranteed by Characterization

## Z8030/Z8530 GENERAL TIMING AC CHARACTERISTICS

Number	Symbol	Parameter	4 MHz			6 MHz			8 MHz			Notes*†
			Min	Max	Typ	Min	Max	Typ	Min	Max	Typ	
1	TdPC(REQ)	PCLK ↓ to $\overline{W}/\overline{REQ}$ Valid Delay	250 <sup>a</sup>		250 <sup>a</sup>	250 <sup>a</sup>		250 <sup>a</sup>		250 <sup>a</sup>		
2	TdPC(W)	PCLK ↓ to Wait Inactive Delay	350 <sup>a</sup>		350 <sup>a</sup>	350 <sup>a</sup>		350 <sup>a</sup>		350 <sup>a</sup>		
3	TsRXC(PC)	RxC ↑ to PCLK ↑ Setup Time (PCLK + 4 case only)	80	TwpPCL <sup>c</sup>	70	TwpPCL <sup>c</sup>	60	TwpPCL <sup>c</sup>	60	TwpPCL <sup>c</sup>	1, 4	
4	TsRXD(RXC)	RxD to RxC ↑ Setup Time (X1 Mode)	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	1	
5	TsRXD(RXC)	RxD to RxC ↑ Hold Time (X1 Mode)	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	1	
6	TsRXD(RXC)	RxD to RxC ↓ Setup Time (X1 Mode)	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	1, 5	
7	TsRXD(RXC)	RxD to RxC ↓ Hold Time (X1 Mode)	150 <sup>c</sup>	150 <sup>c</sup>	150 <sup>c</sup>	150 <sup>c</sup>	150 <sup>c</sup>	150 <sup>c</sup>	150 <sup>c</sup>	150 <sup>c</sup>	1, 5	
8	TsY(RXC)	SYNC to RxC ↑ Setup Time	-200 <sup>a</sup>	-200 <sup>a</sup>	-200 <sup>a</sup>	-200 <sup>a</sup>	-200 <sup>a</sup>	-200 <sup>a</sup>	-200 <sup>a</sup>	-200 <sup>a</sup>	1	
9	TsY(RXC)	SYNC to RxC ↑ Hold Time	3TcPC <sup>c</sup>	3TcPC <sup>c</sup>	3TcPC <sup>c</sup>	3TcPC <sup>c</sup>	3TcPC <sup>c</sup>	3TcPC <sup>c</sup>	3TcPC <sup>c</sup>	3TcPC <sup>c</sup>	1	
10	TsTXC(PC)	TxC ↓ to PCLK ↑ Setup Time	+400	+320	0 <sup>a</sup>	+250	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	0 <sup>a</sup>	2, 4	
11	TdTXC(TXD)	TxC ↓ to TxD Delay (X1 Mode)	300 <sup>a</sup>	230 <sup>a</sup>	300 <sup>a</sup>	230 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	2	
12	TdTxCr(TXD)	TxC ↑ to TxD Delay (X1 Mode)	300 <sup>a</sup>	230 <sup>a</sup>	300 <sup>a</sup>	230 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	2, 5	
13	TdTXD(TRX)	TxD to TRxC Delay (Send Clock Echo)	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>		
14	TwRTXh	RTxC High Width	180 <sup>a</sup>	180 <sup>a</sup>	180 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	6	
15	TwRTXl	RTxC Low Width	180 <sup>a</sup>	180 <sup>a</sup>	180 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	6	
16	TcRTX	RTxC Cycle Time (RxD, TxD)	1000 <sup>a</sup>	640 <sup>a</sup>	640 <sup>a</sup>	500 <sup>a</sup>	500 <sup>a</sup>	500 <sup>a</sup>	500 <sup>a</sup>	500 <sup>a</sup>	6, 7	
17	TcRTXX	Crystal Oscillator Period	250 <sup>c</sup>	1000 <sup>c</sup>	165 <sup>c</sup>	1000 <sup>c</sup>	125 <sup>c</sup>	1000 <sup>c</sup>	1000 <sup>c</sup>	1000 <sup>c</sup>	3	
18	TwTRXh	TRxC High Width	180 <sup>a</sup>	180 <sup>a</sup>	180 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	6	
19	TwTRXl	TRxC Low Width	180 <sup>a</sup>	180 <sup>a</sup>	180 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	150 <sup>a</sup>	6	
20	TcTRX	TRxC Cycle Time	1000 <sup>a</sup>	640 <sup>a</sup>	640 <sup>a</sup>	500 <sup>a</sup>	500 <sup>a</sup>	500 <sup>a</sup>	500 <sup>a</sup>	500 <sup>a</sup>	6, 7	
21	TwEXT	DCD or CTS Pulse Width	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>		
22	TwSY	SYNC Pulse Width	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>	200 <sup>a</sup>		

### NOTES

- RxC is RTxC or TRxC, whichever is supplying the receive clock.
- TxC is TRxC or RTxC, whichever is supplying the transmit clock.
- Both RTxC and SYNC have 30 pF capacitors to ground connected to them.
- Parameter applies only if the data rate is one-fourth the PCLK rate. In all other cases, no phase relationship between RxC and PCLK or TxC and PCLK is required.
- Parameter applies only to FM encoding/decoding.
- Parameter applies only for transmitter and receiver; DPLL and baud rate generator timing requirements are identical to case PCLK requirements.
- The maximum receive or transmit data is 1/4 PCLK.
- Timings are preliminary and subject to change.

\*Units in nanoseconds (ns).

- a Tested
- b Guaranteed by Design
- c Guaranteed by Characterization

Z8

Z8

RTXCR

AD<sub>0</sub>-AD<sub>7</sub>

CS<sub>1</sub>

Z8

Z8

Z8

RTXCR

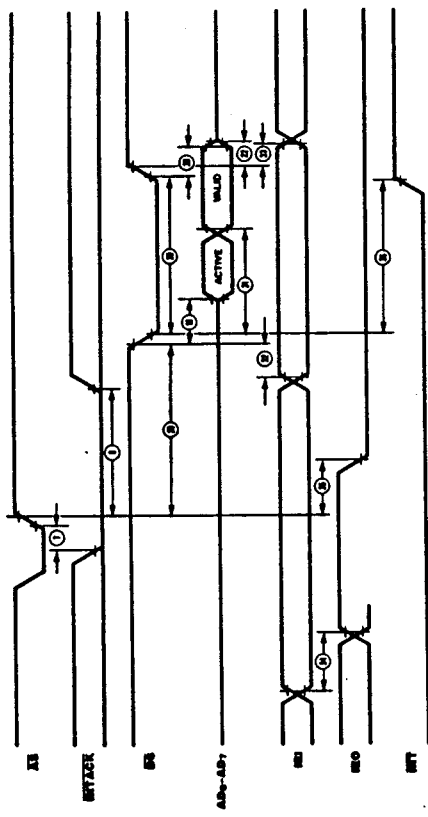
AD<sub>0</sub>-AD<sub>7</sub>

CS<sub>1</sub>

Z8

Z8

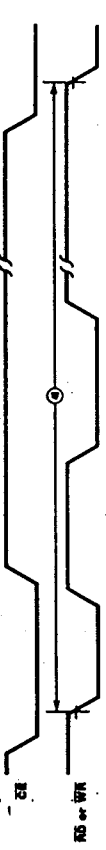
**Interrupt  
Acknowledge  
Timing  
Z8030**



**Reset  
Timing  
Z8530**



**Cycle  
Timing  
Z8530**



## Looking for pricing, stock, or lifecycle information?

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## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management