

TTL/Bipolar PROM / RAM Reference Guide V2.f3

TS = Tri-State output
OC = Open Collector output

Hacked, copied, edited and extended by W.G. to give it a decent shape and handy booklet form

The main part is extracted from
http://www.arlo.net/vectorlist/archive/mbox/November_1997
and in detail: from the text part about the Bipolar PROMs List
See also old reference info at:

<http://matthieu.benoit.free.fr/cross/>

and the info at

<http://antiquetech.com/>
<http://www.xs4all.nl/~ganswijk/chipdir/n/>

32*8

	+	-----	+
01		1 16	Vcc
02		2 15	/CE
03		3 14	A4
04		4 13	A3
05		5 12	A2
06		6 11	A1
07		7 10	A0
GND		8 9	08
	+	-----	+

	NEC	Fujitsu
	---	-----
TS	uPB410	MB7051
OC	uPB400	MB7056

	Signetics	MMI	TI	Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS	82S123 (50ns)	6331-1	18S030	7603-5	-	27S19	-	-
	82S123A(25ns)	63S081	-	-	-	27S19AC (27S09)	74S288	-
OC	82S23 (50ns)	6330-1	18SA030	7602-5	-	27S18	-	-
	82S23A(25ns)	63S080	-	-	-	27A18AC (27S08)	74S188	-

256*4								
+-----+								
A6	1	16	Vcc		NEC	Fujitsu	Fairchild	
A5	2	15	A7		---	-----	-----	
A4	3	14	/CE2	TS	uPB423	MB7052	93427	
A3	4	13	/CE1					
A0	5	12	01	OC	uPB403	MB7057	93417	
A1	6	11	02					
A2	7	10	03					
GND	8	9	04					
+-----+								

	Signetics	MMI	TI	Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS	82S129 (50ns)	6301-1	24S10	7611-5	29661	27S21	74S287	3621
	82S129A(27ns)	63S141	-	7611A	-	27S21A	-	-
	82S27							
OC	82S126 (50ns)	6300-1	24SA10	7610-5	29660	27S20	74S387	3601
	82S126A(30ns)	63S140	-	7610A	-	27S20A	-	-

(27S11 ??)

256*8

+-----+			
A0	1	20	Vcc
A1	2	19	A7
A2	3	18	A6
A3	4	17	A5
A4	5	16	/CE1
O1	6	15	/CE2
O2	7	14	08
O3	8	13	07
O4	9	12	06
GND	10	11	05
+-----+			

NEC

 TS uPB421
 OC

	Signetics	MMI	TI	Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS	82S135 (45ns)	6309-1	18S22	-	-	-	-	-
	82LS135(100ns)	-	28L22	-	-	-	74LS471	-
		63S281						
OC	-	63S280						

256*8 (latched)

	+-----+			
A3		1	24	Vcc
A4		2	23	A2
NC		3	22	A1
A5		4	21	A0
A6		5	20	/CE1
A7		6	19	CE2
O1		7	18	STROBE
O2		8	17	O8
O3		9	16	O7
O4		10	15	O6
FE2		11	14	O5
GND		12	13	FE1
	+-----+			

	Signetics	MMI	TI	Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS 82S114 (60ns)	-	-	-	-	-	-	-	-

512*4							
+-----+							
A6	1	16	Vcc		NEC	Fujitsu	Fairchild
A5	2	15	A7		---	-----	-----
A4	3	14	A8	TS	uPB412	MB7053	93446
A3	4	13	/CE				
A0	5	12	01	OC		MB7058	93436
A1	6	11	02				
A2	7	10	03				
GND	8	9	04				
+-----+							

				Motorola					
Signetics		MMI	TI	Harris	Raytheon	AMD	National	Intel	
-----		---	-----	-----	-----	---	-----	-----	
TS	82S131 (50ns)	6306-1	- ??	7621-5	29611	27S13	74S571	3622	
	82S131A(30ns)	63S241	74S370	7621A	-	27S13A	74S571A	3622A	
OC	82S130 (50ns)	6305-1	- ??	7620-5	29610	27S12	74S570	3602	
	82S130A(33ns)	63S240	74S270	7620A-5	-	27S12A	74S570A	3602A	
			TI- OK??						

512*8			
+-----+			
A0	1	20	Vcc
A1	2	19	A8
A2	3	18	A7
A3	4	17	A6
A4	5	16	A5
01	6	15	/CE
02	7	14	08
03	8	13	07
04	9	12	06
GND	10	11	05
+-----+			

NEC

 TS uPB424
 OC

	Signetics	MMI	TI	Motorola Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS	82S147 (60ns)	6349-1	28S42	7649-5	29621	-	74S472	-
	82S147A(45ns)	6349-2	-	7649A-5	29621A	27S29	74S472A	-
	82S147AN/BN	63S481	18S42					
OC	82S146	6348 63S480	28SA42	-	-	27S28	74S473	-

512*8			
+-----+			
A7	1	24	Vcc
A6	2	23	A8
A5	3	22	NC
A4	4	21	/CE1
A3	5	20	/CE2
A2	6	19	CE3
A1	7	18	CE4
A0	8	17	D7
D0	9	16	D6
D1	10	15	D5
D2	11	14	D4
GND	12	13	D3
+-----+			

	Signetics	MMI	TI	Motorola Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS	82S141 (60ns)	6341-1 63S485	28S46	7641-5	29625	27S31	74S474	3624
OC	82S140 (60ns)	6340	28SA46	7640	-	27S30	74S475	3604

512*8 (latched)

	+-----+			
A3	1	24	Vcc	
A4	2	23	A2	
A5	3	22	A1	
A6	4	21	A0	
A7	5	20	/CE1	
A8	6	19	CE2	
O1	7	18	STROBE	
O2	8	17	O8	
O3	9	16	O7	
O4	10	15	O6	
FE2	11	14	O5	
GND	12	13	FE1	
	+-----+			

	Signetics	MMI	TI	Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS 82S115 (60ns)	-	-	-	7647	-	27S15	-	-

1024*4							
+-----+							
A6	1	18	Vcc		NEC	Fujitsu	Fairchild
A5	2	17	A7		---	-----	-----
A4	3	16	A8	TS	uPB426	MB7122	93453
A3	4	15	A9		uPB426-1		
A0	5	14	01		uPB426-2		
A1	6	13	02				
A2	7	12	03	OC	uPB406	MB7059	
/CE1	8	11	04		uPB406-1		
GND	9	10	/CE2		uPB406-2		
+-----+							

				Motorola				
	Signetics	MMI	TI	Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS	82S137 (60ns)	6353-1	24S41	7643-5	29641	27S33	74S573	3625
	82S137A (45ns)	63S441	-	7643A	-	-	74S573A	-
	82S137B (35ns)	63S441A	-	7643B	-	27S33A	74S573B	-
OC	82S136 (60ns)	6352-1	24SA41	7642		27S32	74S572	3605
		63S440						

1024*8			
+-----+			
A7	1	24	Vcc
A6	2	23	A8
A5	3	22	A9
A4	4	21	NC
A3	5	20	/CE
A2	6	19	NC
A1	7	18	NC
A0	8	17	08
01	9	16	07
02	10	15	06
03	11	14	05
GND	12	13	04
+-----+			

special version

Prom 82S2708 is an EPROM replacement

-5, +12 and Vpp NO internal connection

(NEC uPB419 is a 2716 PROM replacement)

Signetics	TI	NEC	Harris	Fairchild	Motorola	Raytheon
-----	--	---	-----	-----	-----	-----
82S2708	TBP28S2708	uPB417	7608-5	93461C	MCM82708C	29635

1024*8 (latched)

	+-----+		
A7	1	24	Vcc
A6	2	23	A8
A5	3	22	A9
A4	4	21	/CE1
A3	5	20	/CE2
A2	6	19	CE3
A1	7	18	STROBE
A0	8	17	08
01	9	16	07
02	10	15	06
03	11	14	05
GND	12	13	04
	+-----+		

	Signetics	Harris	Fairchild
	-----	-----	-----
TS	82S183 (60ns)	7681R-5	93L451
		=	

2048*4			
+-----+			
A6	1	18	Vcc
A5	2	17	A7
A4	3	16	A8
A3	4	15	A9
A0	5	14	01
A1	6	13	02
A2	7	12	03
A10	8	11	04
GND	9	10	/CE
+-----+			

Motorola								
	Signetics	MMI	TI	Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS	82S185(100ns)	-	-	7685-5	29651	-	-	-
	82S185A(50ns)	63S841	24S81	7685A	29651A	27S185	87S185	-
	82S185B(45ns)	-	24S81-55	-	-	-	87S185A	-
OC	82S184(100ns)	63S840	24SA81	7684	-	27S184	87S184	-

2048*8										
+-----+										
A7	1	24	Vcc		NEC	Fairchild	Hitachi			
A6	2	23	A8		---	-----	-----			
A5	3	22	A9	TS	uPB429	93511P	HN25169			
A4	4	21	A10		uPB429-1					
A3	5	20	/CE1		uPB429-2					
A2	6	19	CE2							
A1	7	18	CE3	OC	uPB409		HN25168			
A0	8	17	08		uPB409-1					
01	9	16	07		uPB409-2					
02	10	15	06							
03	11	14	05							
GND	12	13	04							
+-----+										
				Motorola						
Signetics				MMI	TI	Harris	Raytheon	AMD	National	Intel
-----				---	--	-----	-----	---	-----	-----
TS	82S191(80ns)			-	28S166	76161	29681	-	87S191	3636B
	82S191A(55ns)			63S1681	28S166-55	76161A	29681A	27S191	87S191A	-
	82S191C(35ns)			-	-	-	-	27S191A	-	-
OC	82S190(80ns)			63S1680	28SA166	76160	-	27S190	-	3606

4096*4			
+-----+			
A8	1	20	Vcc
A7	2	19	A9
A6	3	18	A10
A5	4	17	A11
A4	5	16	/CE1
A3	6	15	/CE2
A2	7	14	01
A1	8	13	02
A0	9	12	03
GND	10	11	04
+-----+			

	Signetics	MMI	TI	Motorola Harris	Raytheon	AMD	National	Fairchild
	-----	---	--	-----	-----	---	-----	-----
TS	82S195 (45ns)	63S1641	-	76165-5	-	27S41	87S195	93513
	82S195A(35ns)	63S1641A		-	-	27S41A	87S195A	-
	82S195B(25ns)	-	-	-	-	-	-	-
OC		63S1640						

$$+ - - - - +$$
$$+ - - - - +$$

	Signetics	MMI	TI	Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS	82S321 (70ns)	-	-	76321-5	29671	-	-	3632
	82HS321(45ns)	63S3281	-	-	29671A	27S43	87S321	-
	82HS321A(35ns)	63S3281A	-	-	-	27S43A	-	-
	82HS321B(30ns)	-	-	-	-	-	-	-

8192*8			
+-----+			
A7	1	24	Vcc
A6	2	23	A8
A5	3	22	A9
A4	4	21	A10
A3	5	20	/CE1
A2	6	19	A11
A1	7	18	A12
A0	8	17	08
01	9	16	07
02	10	15	06
03	11	14	05
GND	12	13	04
+-----+			

	Signetics	MMI	TI	Harris	Raytheon	AMD	National	Fairchild
	-----	---	--	-----	-----	---	-----	-----
TS	82S641 (55ns)	-	-	76641-5	-	27S49	-	93Z565
	82S641A(45ns)	-	-	76641A-5	-	27S49A	-	93Z565A
	82S641B(35ns)	-	-	-	-	-	-	-

16*4 = 64 bit

THIS IS NOT A PROM

This is a RAM, it's here to be complete and not confused

```

+-----+
A0 | 1   16 | Vcc
/CE | 2   15 | A1
/WE | 3   14 | A2
I1  | 4   13 | A3
/D1 | 5   12 | I4
I2  | 6   11 | /D4
/D2 | 7   10 | I3
GND | 8    9 | /D3
+-----+

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	Signetics	MMI	TI	Harris	Fairchild Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS 74S89		6561 5561	74S189	-	93405	27S03	-	-
OC 82S25		6560 5560	74S289	-	93404	27S02	-	3101A

256*1 = 256 bit THIS IS NOT A PROM

This is a RAM, it's here to be complete and not confused

+-----+			
A1	1	16	Vcc
A0	2	15	A2
/CE1	3	14	A3
/CE2	4	13	Din
/CE3	5	12	/WE
/Dout	6	11	A7
A4	7	10	A6
GND	8	9	A5
+-----+			

	Signetics	MMI	TI	Harris	Fairchild Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS	82S16	6531	74S200	-	93421	27S00	-	P3106
	82S116		74S201 TTL					
	(82S06 TTL)							
OC	82S17	-	74S301 TTL	-	93411	27S01	-	P3107
	82S117	-	(74S206 TTL)					
	(82S07 TTL)							

1024*1 = 1024 bit THIS IS NOT A PROM

This is a RAM, it's here to be complete and not confused

+-----+			
/CE	1	16	Vcc
A0	2	15	Din
A1	3	14	/WE
A2	4	13	A9
A3	5	12	A8
A4	6	11	A7
Dout	7	10	A6
GND	8	9	A5
+-----+			

NEC

TS -

OC -

				Motorola				
				Fairchild				
	Signetics	MMI	TI	Harris	Raytheon	AMD	National	Intel
	-----	---	--	-----	-----	---	-----	-----
TS	82S11	-	74S209	-	93425A	-	-	-
OC	82S10	-	74S309	-	93415A	-	-	3110??