

303A-011A
CMOS/BIPOLAR P/T ADAPTER

V18.0 Device List

DEVICE LIST

Following is a complete listing of the devices currently programmable with the 303A-011A. The devices are organized by manufacturer, and are listed in numerical order. References in the Notes column are explained following the list.

CAUTION

Be sure you enter the proper family and pinout codes for the device you want to program. If you enter an incorrect family and pinout code, you may damage your device. Be aware that although you may enter an independently valid family code and an independently valid pinout code, when combined, these may produce an invalid (illegal) combination. The correct combination for your device is published in this table. All family/pinout combinations not contained in this table are considered "illegal". Data I/O assumes no responsibility or liability for results produced by entry of "illegal" family/pinout combinations.

Data I/O Device Support Policy/Liability

1. Data I/O strives to achieve more device support approvals from semiconductor manufacturers than any other programmer manufacturer or software developer.
2. Every effort is made to program an adequate number of samples according to the manufacturer supplied specification, and verify waveforms as per that specification prior to release of support. Manufacturers' approvals are to be sought in parallel with this process.
3. Data I/O's objective is to seek and obtain approvals on all devices.
4. Data I/O has made every attempt to ensure that the device information (as provided by the device manufacturer) contained in our programmers, software and documentation is accurate and complete. However, Data I/O assumes no liability for errors, or for any damages, whether direct, indirect, consequential or incidental, that result from use of documents provided with equipment or from the equipment or software which it accompanies, regardless of whether or not Data I/O has been advised of the possibility of such loss or damage.

Entering 3-Digit Codes

CAUTION

To prevent damage to the device if your machine is a 29B, V6.0, or later, family/pinout codes must be entered using one of the following two methods.

1. When entering family/pinout codes, all codes must be entered as three-digit codes. If the family/pinout code is given as two digits for the family code and two digits for the pinout code, leading zeroes must be inserted for both family and pinout codes. For example, a 16L8 with a family/pinout code of 22/17 must be entered as 022/017.
2. Family codes and pinout codes can be entered as two-digit codes when applicable, provided that the family code entry and the pinout code entry are separated by a START keystroke. Again, using the 16L8 example, the 22/17 code would be entered as 22 START, 17 START.

Key To Device List Headings

An explanation of each of the column headings is given below.

Device Part Number:	The number assigned by the device manufacturer
Pins:	The number of pins on the device package.
Part Type:	The type of part, such as GAL, EPLD, or PAL.
Footnote:	Numbers which correspond to footnotes described at the end of the device list. The footnotes provide additional information about a device. Each footnote number corresponds to a numbered description at the end of the device list.
Adapter Version:	A number that specifies the earliest version of the P/T Adapter firmware that will program the device to the manufacturer's latest specifications.
Family Code:	A 2- or 3-digit hexadecimal number that designates the programming algorithm (family).
Pinout Code:	A 2- or 3-digit hexadecimal number used to differentiate device types based on pin assignment and array size (pinout).

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Advanced Micro Devices/MMI						
10H8/-2	20	PAL		18	22	18
10L8/-2	20	PAL		18	22	13
110	44	MACH	2,5,7,13	14	7F	BD
12H6/-2	20	PAL		18	22	19
12L10	24	PAL		18	22	01
12L6/-2	20	PAL		18	22	14
14H4/-2	20	PAL		18	22	20
14L4/-2	20	PAL		18	22	15
14L8	24	PAL		18	22	02
14R21/A	24	PMS	5	18	22	58
16A4	20	PAL		18	22	24
16C1/-2	20	PAL		18	22	21
16H2/-2	20	PAL		18	22	22
16H8	20	AMPAL		01	97	25
16HD8	20	AMPAL		01	97	25
16L2/-2	20	PAL		18	22	16
16L6	24	PAL		18	22	03
16L8-5	20	PAL		16	20	17
16L8-7	20	PAL		13	20	17
16L8/A/A-2/A-4	20	PAL		18	22	17
16L8/A/B	20	AMPAL		05	97	17
16L8B	20	PAL		18	30	17
16L8B-2/B-4	20	PAL		18	22	17
16L8D	20	AMPAL		05	20	17
16L8D	20	PAL		18	30	17
16L8H-10	20	PAL		11	20	17
16L8H-15	20	PAL		18	30	17
16LD8	20	AMPAL		01	97	17
16P8A	20	PAL		18	22	30
16R4-5	20	PAL	1	16	20	81
16R4-7	20	PAL	1	13	20	81
16R4/A/A-2/A-4	20	PAL		18	22	24
16R4/A/B	20	AMPAL	1	05	97	81
16R4B	20	PAL		18	30	24
16R4B-2/B-4	20	PAL		18	22	24
16R4D	20	AMPAL	1,4	05	20	24
16R4D	20	PAL		18	30	24
16R4H-10	20	PAL	1	11	20	81
16R4H-15	20	PAL	1	18	30	67
16R6-5	20	PAL	1	16	20	80
16R6-7	20	PAL	1	13	20	80
16R6/A/A-2/A-4	20	PAL		18	22	24
16R6/A/B	20	AMPAL	1	05	97	80
16R6B	20	PAL		18	30	24
16R6B-2/B-4	20	PAL		18	22	24
16R6D	20	AMPAL	1,4	05	20	24
16R6D	20	PAL		18	30	24
16R6H-10	20	PAL	1	11	20	80
16R6H-15	20	PAL	1	18	30	67
16R8-5	20	PAL	1	16	20	82

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Advanced Micro Devices/MMI (continued)						
16R8-7	20	PAL	1	13	20	82
16R8/A/A-2/A-4	20	PAL		18	22	24
16R8/A/B	20	AMPAL	1	05	97	82
16R8B	20	PAL		18	30	24
16R8B-2/B-4	20	PAL		18	22	24
16R8D	20	AMPAL	1,4	05	20	24
16R8D	20	PAL		18	30	24
16R8H-10	20	PAL	1	11	20	82
16R8H-15	20	PAL	1	18	30	67
16RA8	20	PAL	1	18	22	31
16RP4A	20	PAL	1	18	22	31
16RP6A	20	PAL	1	18	22	31
16RP8A	20	PAL	1	18	22	31
16X4	20	PAL		18	22	24
18L4	24	PAL		18	22	04
18P8	20	AMPAL		01	97	29
20C1	24	PAL		18	22	12
20L10	24	AMPAL		02	97	06
20L10/A	24	PAL		18	22	06
20L2	24	PAL		18	22	05
20L8	24	AMPAL		02	97	26
20L8-10	24	PAL		18	22	26
20L8-5	24	PAL		16	20	26
20L8-7	24	PAL		11	20	26
20L8A/A-2/B/B-2	24	PAL		18	22	26
20R4	24	AMPAL	1,4	02	97	27
20R4-10	24	PAL	1	18	22	68
20R4-5	24	PAL	1	16	20	65
20R4-7	24	PAL	1	11	20	65
20R4A/A-2/B/B-2	24	PAL		18	22	27
20R6	24	AMPAL	1,4	02	97	27
20R6-10	24	PAL	1	18	22	68
20R6-5	24	PAL	1	16	20	66
20R6-7	24	PAL	1	11	20	66
20R6A/A-2/B/B-2	24	PAL		18	22	27
20R8	24	AMPAL	1,4	02	97	27
20R8-10	24	PAL	1	18	22	68
20R8-5	24	PAL	1	16	20	68
20R8-7	24	PAL	1	11	20	68
20R8A/A-2/B/B-2	24	PAL		18	22	27
20RA10	24	PAL	5	18	22	45
20RP10	24	AMPAL	1,4	02	97	9F
20RP4	24	AMPAL	1,4	02	97	9C
20RP6	24	AMPAL	1,4	02	97	9D
20RP8	24	AMPAL	1,4	02	97	9E
20RS10	24	PAL	1	18	22	44
20RS4	24	PAL	1	18	22	46
20RS8	24	PAL	1	18	22	44
20S10	24	PAL		18	22	43
20X10	24	PAL		18	22	23
20X10A	24	PAL	1	18	22	36

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Advanced Micro Devices/MMI (continued)						
20X4	24	PAL		18	22	23
20X4A	24	PAL	1	18	22	36
20X8	24	PAL		18	22	23
20X8A	24	PAL	1	18	22	36
20XRP10	24	AMPAL	1,4	02	97	9F
20XRP4	24	AMPAL	1,4	02	97	9C
20XRP6	24	AMPAL	1,4	02	97	9D
20XRP8	24	AMPAL	1,4	02	97	9E
210	44	MACH	2,5,7,8,13	15	94	C1
22IP6	24	PAL		18	22	6A
22P10	24	AMPAL		02	97	2B
22RX8/A	24	PAL	1	18	22	78
22V10-10/-15	24	PAL	1,4	12	97	28
22V10/A/B	24	AMPAL	1,4	01	97	28
22XP10	24	AMPAL		02	97	2B
23S8	20	AMPAL	1	04	97	84
29CPL141	28	FPC	2,5	08	94	7C
29CPL142	28	FPC	2,5	10	94	7D
29CPL144	28	FPC	2,5	08	94	7E
29CPL151	28	FPC	2,5	08	94	7C
29CPL152	28	FPC	2,5	10	94	7D
29CPL154	28	FPC	2,5	08	94	7E
32VX10/A	24	PAL	1	18	22	77
6L16A	24	PAL	5	18	22	48
8L14A	24	PAL	5	18	22	49
C16L8Q	20	PAL		04	DB	17
C16L8Z	20	PAL		07	46	17
C16R4Q	20	PAL	1	04	DB	24
C16R4Z	20	PAL	1	07	46	24
C16R6Q	20	PAL	1	04	DB	24
C16R6Z	20	PAL	1	07	46	24
C16R8Q	20	PAL	1	04	DB	24
C16R8Z	20	PAL	1	07	46	24
C18U8	20	PAL	1	04	DB	2E
C20L8Z	24	PAL		06	46	26
C20R4Z	24	PAL	1	06	46	27
C20R6Z	24	PAL	1	06	46	27
C20R8Z	24	PAL	1	06	46	27
C20RA10Z	24	PAL	5	06	46	45
C22V10	24	PAL	1	09	DB	28
C22V10	24	AMPAL	1	04	60	28
C22VF10	24	AMPAL	1	04	60	4D
CE16V8H-10/4	20	PAL	7,10	17	80	55
CE16V8H-25/4	20	PAL	7,10	17	80	55
CE16V8HD	24	PAL	1,4,7,10	17	80	E2
CE16V8Z	20	PAL	1,4,7,10	17	81	55
CE18U8	20	EEPAL	1,7	07	DE	3E
CE20RA10H-15/4	24	PAL	7,10	18	80	45
CE20RA10H-25/4	24	PAL	7,10	18	80	45
CE20RA10Q-15/4	24	PAL	7,10	18	80	45
CE20RA10Q-25/4	24	PAL	7,10	18	80	45

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Advanced Micro Devices/MMI (continued)						
CE20RA10Z	24	PAL	5,7	06	DE	45
CE20V8H-10/4	24	EEPLD	1,4,7,10	18	80	57
CE20V8H-15	24	EEPLD	1,4,7,10	18	80	57
CE20V8H-15/4	24	EEPLD	1,4,7,10	18	80	57
CE20V8H-25	24	EEPLD	1,4,7,10	18	80	57
CE20V8H-25/4	24	EEPLD	1,4,7,10	18	80	57
CE20V8Q-15	24	EEPLD	1,4,7,10	18	80	57
CE20V8Q-15/4	24	EEPLD	1,4,7,10	18	80	57
CE20V8Q-25	24	EEPLD	1,4,7,10	18	80	57
CE20V8Q-25/4	24	EEPLD	1,4,7,10	18	80	57
CE22V10H-10/5	24	PAL	7,10	18	80	28
CE22V10H-15	24	PAL	7,10	18	80	28
CE22V10H-15/4	24	PAL	7,10	18	80	28
CE22V10H-25	24	PAL	7,10	18	80	28
CE22V10H-25/4	24	PAL	7,10	18	80	28
CE22V10Q-25	24	PAL	7,10	18	80	28
CE22V10Q-25/4	24	PAL	7,10	18	80	28
CE26V12H	28	EEPLD	1,4,7	17	80	4E
CE29M16-25/-35	24	PAL	7,8	03	60	4B
CE29M16/4	24	PAL	7,10	16	80	4B
CE29M16/4	28	PAL	3,7,10	16	80	4B
CE29MA16-25/-35	24	PAL	7,8	03	60	4C
CE29MA16/4	24	PAL	7,10	16	80	4C
CE610	24	PAL	2,7,10	18	80	59
CE610H	24	PAL	2,7,10	18	80	59
PLS105	28	PLS		04	2A	63
PLS167	24	PLS		04	2A	60
PLS168	24	PLS		04	2A	74
Altera Corporation						
300	20	EPLD		02	26	50
310	20	EPLD		02	44	50
320	20	EPLD		02	44	95
330	20	EPLD		17	6B	95
600	24	EPLD		02	26	59
610-15/20	24	EPLD	3	18	6B	59
610-25/30/35/40	24	EPLD	5,12	06	26	59
630	24	EPLD	3	16	6B	59
Atmel Corporation						
22V10	24	EPLD	1	13	65	28
750	24	EPLD	5,8	05	65	0F
Cypress Semiconductor, Inc.						
12L10	24	PAL		01	28	01
14L8	24	PAL		01	28	02
16L6	24	PAL		01	28	03
16L8	20	PAL		01	28	17
16R4	20	PAL	1	01	28	24

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Cypress Semiconductor, Inc. (continued)						
16R6	20	PAL	1	01	28	24
16R8	20	PAL	1	01	28	24
18G8	20	PAL	1	13	BB	0F
18L4	24	PAL		01	28	04
20G10/A	24	PAL	1	11	28	56
20G10B	24	PAL	1	11	BB	56
20L10	24	PAL		01	28	06
20L2	24	PAL		01	28	05
20L8	24	PAL		01	28	26
20R4	24	PAL	1	01	28	65
20R6	24	PAL	1	01	28	66
20R8	24	PAL	1	01	28	27
20RA10	24	PAL	5	13	BB	45
22V10/A	24	PAL	1	11	28	28
22V10B	24	EPLD	1	11	BB	28
22V10C	24	PAL		18	4F	28
7C330	28	EPLD	8	07	28	1A
7C331	28	EPLD	1,8	11	28	5C
7C332	28	EPLD		11	28	8B
Exel Microelectronics, Inc.						
78C800	24	ERASIC	1,7	04	76	2A
Gould AMI Semiconductors						
153	20	PEEL	7	09	7D	65
173	24	PEEL	7	04	7D	76
18CV8	20	PEEL	7	04	7D	3A
20CG10	24	PEEL	1,7	10	7D	56
22CV10	24	PEEL	1,7	10	7D	28
22CV10Z	24	PEEL	1,7	10	7D	A3
253	20	PEEL	7	09	7D	85
273	24	PEEL	7	04	7D	86
Harris Corporation						
77153/82S153	20	HPL		01	98	65
77209/16L8	20	HPL		01	98	17
77210/16R4	20	HPL		01	98	24
77211/16R6	20	HPL		01	98	24
77212/16R8	20	HPL		01	98	24
77215/16H8	20	HPL		01	98	17
77216/16P8	20	HPL		01	98	30
Hyundai Electronics Industries Co., Ltd.						
18CV8	20	EEPLD	7	12	E4	3A

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Intel Corporation						
22V10	24	EPLD		18	79	28
5AC312	24	EPLD	10	07	55	3F
5C031	20	EPLD		01	55	50
5C032	20	EPLD		02	55	95
5C060	24	EPLD		01	55	59
85C060	24	MPLD		14	67	59
85C220	20	EPLD		10	55	95
85C224	24	MPLD	10	14	79	DC
85C22V10	24	EPLD		18	79	8C
International CMOS Technology, Inc.						
153	20	PEEL	7	06	8D	65
173	24	PEEL	7	04	8D	76
18CV8	20	PEEL	7	04	8D	3A
20CG10	24	PEEL	1,7	10	8D	56
22CV10	24	PEEL	1,7	10	8D	28
22CV10A	24	PEEL	1,7	14	A6	28
22CV10A+	24	PEEL	1,7,14	14	A6	A3
22CV10Z	24	PEEL	1,7	10	8D	A3
253	20	PEEL	7	06	8D	85
273	24	PEEL	7	04	8D	86
7024	24	PEELARY	7,8	15	41	27
Lattice Semiconductor						
16V8	20	GAL	1,6,7,9,10	17	36	55
16V8A	20	GAL	1,6,7,9,10	17	36	55
16V8B	20	GAL	1,6,7,9,10	17	36	55
16Z8	24	GAL	1,5,6,7,9,10	01	36	47
18V10	20	GAL	6,7,9,10	18	36	5F
20RA10	24	GAL	6,7,9,10	17	36	45
20RA10UES	24	GAL	6,7,9,10	17	36	A5
20V8	24	GAL	1,6,7,9,10	17	36	57
20V8A	24	GAL	1,6,7,9,10	17	36	57
20V8B	24	GAL	1,6,7,9,10	17	36	57
20VP8	24	GAL	6,7,9,10	18	36	5D
22V10	24	GAL	6,7,9,10	17	36	28
22V10B	24	GAL	6,7,9,10	17	36	28
22V10BUES	24	GAL	6,7,9,10	17	36	7F
22V10UES	24	GAL	6,7,9,10	17	36	7F
26CV12	28	GAL	6,7,9,10	18	36	4E
26CV12B	28	GAL	6,7,9,10	18	36	4E
6001	24	GAL	5,6,7,9,10	17	36	4A
6002B	24	GAL	5,6,7,9,10	18	36	7A

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
National Semiconductor Corp.						
10H8/A/A2	20	PAL		14	95	18
10L8/A/A2	20	PAL		14	95	13
12H6/A/A2	20	PAL		14	95	19
12L10/A	24	PAL		14	95	01
12L6/A/A2	20	PAL		14	95	14
14H4/A/A2	20	PAL		14	95	20
14L4/A/A2	20	PAL		14	95	15
14L8/A	24	PAL		14	95	02
16C1/A/A2	20	PAL		14	95	21
16H2/A/A2	20	PAL		14	95	22
16L2/A/A2	20	PAL		14	95	16
16L6/A	24	PAL		14	95	03
16L8/A/A2	20	PAL		14	95	17
16L8B/B2	20	PAL		14	95	17
16R4/A/A2	20	PAL		14	95	24
16R4B/B2	20	PAL		14	95	24
16R6/A/A2	20	PAL		14	95	24
16R6B/B2	20	PAL		14	95	24
16R8/A/A2	20	PAL		14	95	24
16R8B/B2	20	PAL		14	95	24
16RA8	20	PAL		14	95	31
16V8	20	GAL	1,6,7,9,10	03	0D	55
16V8-10	20	GAL	6,7,9,10	18	0D	55
16V8-7	20	GAL	6,7,9,10	18	0D	55
16V8/A/QS	20	GAL	1,6,7,9,10	09	0D	55
18L4/A	24	PAL		14	95	04
20C1	24	PAL		14	95	12
20L10/A	24	PAL		14	95	06
20L2/A	24	PAL		14	95	05
20L8A	24	PAL		12	95	26
20L8B	24	PAL		14	95	26
20P8B	24	PAL		12	95	42
20R4A	24	PAL		14	95	27
20R4B	24	PAL	1	14	95	27
20R6A	24	PAL		14	95	27
20R6B	24	PAL	1	14	95	27
20R8A	24	PAL		14	95	27
20R8B	24	PAL	1	14	95	27
20RA10	24	PAL	5	14	95	45
20RA10	24	GAL	6,7,9,10	18	0D	45
20RA10UES	24	GAL	6,7,9,10	18	0D	A5
20RP4B	24	PAL	1	12	95	97
20RP6B	24	PAL	1	12	95	97
20RP8B	24	PAL	1	12	95	97
20V8	24	GAL	1,6,7,9,10	03	0D	57
20V8-10	24	GAL	6,7,9,10	18	0D	57
20V8-7	24	GAL	6,7,9,10	18	0D	57
20V8/A/QS	24	GAL	1,6,7,9,10	09	0D	57
20X10	24	PAL		14	95	23
20X10A	24	PAL	1	14	95	36

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
National Semiconductor Corp. (continued)						
20X4	24	PAL		14	95	23
20X4A	24	PAL	1	14	95	36
20X8	24	PAL		14	95	23
20X8A	24	PAL	1	14	95	36
22V10	24	GAL	6,7,9,10	12	0D	28
22V10UES	24	GAL	6,7,9,10	15	0D	7F
6001	24	GAL	6,7,9,10	11	0D	4A
87X153B	20	PLA		12	95	65
MAPL128	28	FPLA	7,8,9,10,14	15	0D	C0
Ricoh Corporation						
10P8A	20	EPLD		01	38	51
10P8B	20	EPLD		01	39	51
12P6A	20	EPLD		01	38	52
12P6B	20	EPLD		01	39	52
14P4A	20	EPLD		01	38	53
14P4B	20	EPLD		01	39	53
16P2A	20	EPLD		01	38	54
16P2B	20	EPLD		01	39	54
16P8B	20	EPLD		01	39	30
16RP4B	20	EPLD	1	01	39	31
16RP6B	20	EPLD	1	01	39	31
16RP8B	20	EPLD	1	01	39	31
241	24	EPLD	1,8	09	39	5A
SEEQ Technology, Inc.						
20RA10Z	24	EEPAL	5,7	04	9E	45
SGS-Thomson Microelectronics						
16V8/AS	20	GAL	1,6,7,9,10	10	14	55
20V8/AS	24	GAL	1,6,7,9,10	10	14	57
6001/AS	24	GAL	6,7,9,10	11	14	4A
Samsung Semiconductor, Inc.						
16L8	20	CPL	6	04	9D	17
16R4	20	CPL	1,6	04	9D	24
16R6	20	CPL	1,6	04	9D	24
16R8	20	CPL	1,6	04	9D	24
20L10	24	CPL	6	07	9D	06
20L8	24	CPL	6	07	9D	26
20R4	24	CPL	1,6	07	9D	27
20R6	24	CPL	1,6	07	9D	27
20R8	24	CPL	1,6	07	9D	27

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Seiko Instruments Inc.						
2918R/I	8	EEPROM		13	AD	24
Signetics Corporation						
CK2605	20	FPLA		02	96	71
PHD16N8	20	PHD		11.1	1B	8F
PL22V10	24	PAL	7	16	A6	28
PLC153	20	FPLA		05	86	65
PLC16V8	20	PAL		05	86	3B
PLC18V8Z	20	PAL	1	09	86	4F
PLC20V8	24	PAL		06	86	4E
PLC415	28	FPLS		10	86	AA
PLC42VA12	24	FPLS		12	86	8A
PLC473	24	FPLS		02	86	78
PLHS16L8	20	PAL		09	3D	17
PLHS18P8	20	PAL		09	3D	33
PLS104	28	FPLS		02	96	63
PLS105	28	FPLS		02	96	63
PLS150	20	FPGA		02	96	64
PLS151	20	FPGA		02	96	64
PLS152	20	FPLA		02	96	65
PLS153	20	FPLA		02	96	65
PLS154	20	FPLS	1	02	96	67
PLS155	20	FPLS	1	02	96	67
PLS156	20	FPLS	1	02	96	68
PLS157	20	FPLS	1	02	96	68
PLS158	20	FPLS	1	02	96	66
PLS159	20	FPLS	1	02	96	66
PLS159A	20	FPLS	1	02	64	66
PLS161	24	FPLA		02	96	69
PLS166	24	FPLS		02	96	60
PLS167	24	FPLS		02	96	60
PLS168	24	FPLS		10	96	74
PLS173	24	FPLA		02	96	76
PLS179	24	FPLS	1	02	96	77
PLUS105	28	FPLS		09	1B	63
PLUS153	20	FPLA		11.1	1B	65
PLUS16L8	20	PAL		18	1B	17
PLUS16R4	20	PAL		18	1B	24
PLUS16R6	20	PAL		18	1B	24
PLUS16R8	20	PAL		18	1B	24
PLUS173	24	FPLA		11.1	1B	76
PLUS20L8	24	PAL		08	1B	26
PLUS20R4	24	PAL		08	1B	27
PLUS20R6	24	PAL		08	1B	27
PLUS20R8	24	PAL		08	1B	27
PLUS405	28	FPLS		09	1B	79

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Sprague Solid State						
16LC8	20	SPL		01	34	17
16RC4	20	SPL	1	01	34	24
16RC6	20	SPL	1	01	34	24
16RC8	20	SPL	1	01	34	24
20LC8	24	SPL		01	34	26
20XC8	24	SPL		01	34	23
Texas Instruments						
1602	20	BPAL		14	9A	17
16L8-10	20	BPAL		05	A1	17
16L8-12/15/25	20	BPAL		02	9A	17
16L8-5	20	BPAL		13	AD	17
16L8-7	20	BPAL		07	0B	17
16L8A/A-2	20	PAL		02	99	17
16L8H-15	20	BPAL		08	0B	17
16N8	20	BPAD		05	A1	0A
16R4-10	20	BPAL	1	05	A1	24
16R4-12/15/25	20	BPAL		02	9A	24
16R4-5	20	BPAL	1	13	AD	24
16R4-7	20	BPAL	1	07	0B	24
16R4A/A-2	20	PAL		02	99	24
16R4H-15	20	BPAL	1	08	0B	24
16R6-10	20	BPAL	1	05	A1	24
16R6-12/15/25	20	BPAL		02	9A	24
16R6-5	20	BPAL	1	13	AD	24
16R6-7	20	BPAL	1	07	0B	24
16R6A/A-2	20	PAL		02	99	24
16R6H-15	20	BPAL	1	08	0B	24
16R8-10	20	BPAL	1	05	A1	24
16R8-12/15/25	20	BPAL		02	9A	24
16R8-5	20	BPAL	1	13	AD	24
16R8-7	20	BPAL	1	07	0B	24
16R8A/A-2	20	PAL		02	99	24
16R8H-15	20	BPAL	1	08	0B	24
18N8	20	BPAD		08	A1	5E
20L10	24	BPAL		08	99	06
20L8-10	24	BPAL		12	0B	26
20L8-15/-25	24	BPAL		02	A1	26
20L8-5	24	BPAL		12	AD	26
20L8-7	24	BPAL		09	0B	26
20L8A	24	PAL		02	99	26
20R4-10	24	BPAL	1	12	0B	27
20R4-15/-25	24	BPAL	1	02	A1	27
20R4-5	24	BPAL	1	13	AD	27
20R4-7	24	BPAL	1	09	0B	27
20R4A	24	PAL	1	02	99	27
20R6-10	24	BPAL	1	12	0B	27
20R6-15/-25	24	BPAL	1	02	A1	27

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Texas Instruments (continued)						
20R6-5	24	BPAL	1	13	AD	27
20R6-7	24	BPAL	1	09	0B	27
20R6A	24	PAL	1	02	99	27
20R8-10	24	BPAL	1	12	0B	27
20R8-15/-25	24	BPAL	1	02	A1	27
20R8-5	24	BPAL	1	13	AD	27
20R8-7	24	BPAL	1	09	0B	27
20R8A	24	PAL	1	02	99	27
20X10	24	BPAL	1	08	99	23
20X4	24	BPAL	1	08	99	23
20X8	24	BPAL	1	08	99	23
22V10-7	24	BPAL		17	99	28
22V10/A/B-15	24	BPAL	1	02	99	28
22VP10	24	BPAL	1	04	99	98
330	20	EPLD		17	2E	95
506/A	24	FPLS	8	16	99	7A
507/A	24	PSG		16	99	7B
529	20	FPGA		02	99	72
610	24	EPLD	5,11	11	26	59
630	24	EPLD	3	16	2E	59
82S105A/B	28	FPLS		02	99	63
82S105A/B	28	FPLS		12	99	63
82S167	24	FPLS		04	99	60
839	24	FPLA		14	99	70
840	24	FPLA		14	99	70
C16L8	20	PAL		03	42	17
C16R4	20	PAL	1	03	42	24
C16R6	20	PAL	1	03	42	24
C16R8	20	PAL	1	03	42	24
C18V8	20	PAL		07	42	4F
C22V10T	24	PAL		12	42	29
C22V10ZP	24	PAL		12	42	28
R19L8	24	PAL		02	99	89
R19R4	24	PAL	1	02	99	91
R19R6	24	PAL	1	02	99	91
R19R8	24	PAL	1	02	99	91
T19L8	24	PAL		02	99	88
T19R4	24	PAL	1	02	99	90
T19R6	24	PAL	1	02	99	90
T19R8	24	PAL	1	02	99	90
VLSI Technology, Inc.						
16V8	20	GAL	1,6,7,9,10	01	2F	55
20V8	24	GAL	1,6,7,9,10	01	2F	57
VP10P8	20	EPLD		01	32	51
VP12P6	20	EPLD		01	32	52
VP14P4	20	EPLD		01	32	53

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
VLSI Technology, Inc. (continued)						
VP16P2	20	EPLD		01	32	54
VP16P8	20	EPLD		01	32	30
VP16RP4	20	EPLD	1	01	32	31
VP16RP6	20	EPLD	1	01	32	31
VP16RP8	20	EPLD	1	01	32	31

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
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Advanced Micro Devices/MMI CE16V8H-25/4 DIP as:

CE16L8	20	→ V8	7,10	17	80	17
CE16R4	20	→ V8	7,10	17	80	81
CE16R6	20	→ V8	7,10	17	80	80
CE16R8	20	→ V8	7,10	17	80	82

Advanced Micro Devices/MMI CE20V8H-15/4 DIP as:

CE20L8	24	→ V8	7,10	18	80	26
CE20R4	24	→ V8	1,4,7,10	18	80	65
CE20R6	24	→ V8	1,4,7,10	18	80	66
CE20R8	24	→ V8	1,4,7,10	18	80	27

Lattice Semiconductor 16V8 DIP as:

10H8	20	RAL	6,7,9,10	17	36	18
10L8	20	RAL	6,7,9,10	17	36	13
10P8	20	RAL	6,7,9,10	17	36	32
12H6	20	RAL	6,7,9,10	17	36	19
12L6	20	RAL	6,7,9,10	17	36	14
12P6	20	RAL	6,7,9,10	17	36	33
14H4	20	RAL	6,7,9,10	17	36	20
14L4	20	RAL	6,7,9,10	17	36	15
14P4	20	RAL	6,7,9,10	17	36	34
16H2	20	RAL	6,7,9,10	17	36	22
16H8	20	RAL	6,7,9,10	17	36	25
16L2	20	RAL	6,7,9,10	17	36	16
16L8	20	RAL	6,7,9,10	17	36	17
16P2	20	RAL	6,7,9,10	17	36	35
16P8	20	RAL	6,7,9,10	17	36	30
16R4	20	RAL	1,6,7,9,10	17	36	81
16R6	20	RAL	1,6,7,9,10	17	36	80
16R8	20	RAL	1,6,7,9,10	17	36	82
16RP4	20	RAL	1,6,7,9,10	17	36	85
16RP6	20	RAL	1,6,7,9,10	17	36	86
16RP8	20	RAL	1,6,7,9,10	17	36	87

Lattice Semiconductor 20V8 DIP as:

14H8	24	RAL	6,7,9,10	17	36	08
14L8	24	RAL	6,7,9,10	17	36	02
14P8	24	RAL	6,7,9,10	17	36	38
16H6	24	RAL	6,7,9,10	17	36	09
16L6	24	RAL	6,7,9,10	17	36	03
16P6	24	RAL	6,7,9,10	17	36	39
18H4	24	RAL	6,7,9,10	17	36	10
18L4	24	RAL	6,7,9,10	17	36	04
18P4	24	RAL	6,7,9,10	17	36	40
20H2	24	RAL	6,7,9,10	17	36	11
20H8	24	RAL	6,7,9,10	17	36	61
20L2	24	RAL	6,7,9,10	17	36	05
20L8	24	RAL	6,7,9,10	17	36	26
20P2	24	RAL	6,7,9,10	17	36	41
20P8	24	RAL	6,7,9,10	17	36	62

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Lattice Semiconductor 20V8 DIP as: (continued)						
20R4	24	RAL	1,6,7,9,10	17	36	65
20R6	24	RAL	1,6,7,9,10	17	36	66
20R8	24	RAL	1,6,7,9,10	17	36	27
20RP4	24	RAL	1,6,7,9,10	17	36	46
20RP6	24	RAL	1,6,7,9,10	17	36	64
20RP8	24	RAL	1,6,7,9,10	17	36	63
Lattice Semiconductor 20V8A DIP as:						
14H8A	24	RAL	6,7,9,10	17	36	08
14L8A	24	RAL	6,7,9,10	17	36	02
14P8A	24	RAL	6,7,9,10	17	36	38
16H6A	24	RAL	6,7,9,10	17	36	09
16L6A	24	RAL	6,7,9,10	17	36	03
16P6A	24	RAL	6,7,9,10	17	36	39
18H4A	24	RAL	6,7,9,10	17	36	10
18L4A	24	RAL	6,7,9,10	17	36	04
18P4A	24	RAL	6,7,9,10	17	36	40
20H2A	24	RAL	6,7,9,10	17	36	11
20H8A	24	RAL	6,7,9,10	17	36	61
20L2A	24	RAL	6,7,9,10	17	36	05
20L8A	24	RAL	6,7,9,10	17	36	26
20P2A	24	RAL	6,7,9,10	17	36	41
20P8A	24	RAL	6,7,9,10	17	36	62
20R4A	24	RAL	1,6,7,9,10	17	36	65
20R6A	24	RAL	1,6,7,9,10	17	36	66
20R8A	24	RAL	1,6,7,9,10	17	36	27
20RP4A	24	RAL	1,6,7,9,10	17	36	46
20RP6A	24	RAL	1,6,7,9,10	17	36	64
20RP8A	24	RAL	1,6,7,9,10	17	36	63
Lattice Semiconductor 16V8A DIP as:						
10H8A	20	RAL	6,7,9,10	17	36	18
10L8A	20	RAL	6,7,9,10	17	36	13
10P8A	20	RAL	6,7,9,10	17	36	32
12H6A	20	RAL	6,7,9,10	17	36	19
12L6A	20	RAL	6,7,9,10	17	36	14
12P6A	20	RAL	6,7,9,10	17	36	33
14H4A	20	RAL	6,7,9,10	17	36	20
14L4A	20	RAL	6,7,9,10	17	36	15
14P4A	20	RAL	6,7,9,10	17	36	34
16H2A	20	RAL	6,7,9,10	17	36	22
16H8A	20	RAL	6,7,9,10	17	36	25
16L2A	20	RAL	6,7,9,10	17	36	16
16L8A	20	RAL	6,7,9,10	17	36	17
16P2A	20	RAL	6,7,9,10	17	36	35
16P8A	20	RAL	6,7,9,10	17	36	30
16R4A	20	RAL	1,6,7,9,10	17	36	81
16R6A	20	RAL	1,6,7,9,10	17	36	80
16R8A	20	RAL	1,6,7,9,10	17	36	82
16RP4A	20	RAL	1,6,7,9,10	17	36	85
16RP6A	20	RAL	1,6,7,9,10	17	36	86

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
Lattice Semiconductor 16V8A DIP as: (continued)						
16RP8A	20	RAL	1,6,7,9,10	17	36	87
Lattice Semiconductor 16V8B DIP as:						
10H8B	20	RAL	6,7,9,10	17	36	18
10L8B	20	RAL	6,7,9,10	17	36	13
10P8B	20	RAL	6,7,9,10	17	36	32
12H6B	20	RAL	6,7,9,10	17	36	19
12L6B	20	RAL	6,7,9,10	17	36	14
12P6B	20	RAL	6,7,9,10	17	36	33
14H4B	20	RAL	6,7,9,10	17	36	20
14L4B	20	RAL	6,7,9,10	17	36	15
14P4B	20	RAL	6,7,9,10	17	36	34
16H2B	20	RAL	6,7,9,10	17	36	22
16H8B	20	RAL	6,7,9,10	17	36	25
16L2B	20	RAL	6,7,9,10	17	36	16
16L8B	20	RAL	6,7,9,10	17	36	17
16P2B	20	RAL	6,7,9,10	17	36	35
16P8B	20	RAL	6,7,9,10	17	36	30
16R4B	20	RAL	1,6,7,9,10	17	36	81
16R6B	20	RAL	1,6,7,9,10	17	36	80
16R8B	20	RAL	1,6,7,9,10	17	36	82
16RP4B	20	RAL	1,6,7,9,10	17	36	85
16RP6B	20	RAL	1,6,7,9,10	17	36	86
16RP8B	20	RAL	1,6,7,9,10	17	36	87
Lattice Semiconductor 20V8B DIP as:						
14H8B	24	RAL	6,7,9,10	17	36	08
14L8B	24	RAL	6,7,9,10	17	36	02
14P8B	24	RAL	6,7,9,10	17	36	38
16H6B	24	RAL	6,7,9,10	17	36	09
16L6B	24	RAL	6,7,9,10	17	36	03
16P6B	24	RAL	6,7,9,10	17	36	39
18H4B	24	RAL	6,7,9,10	17	36	10
18P4B	24	RAL	6,7,9,10	17	36	40
20H2B	24	RAL	6,7,9,10	17	36	11
20H8B	24	RAL	6,7,9,10	17	36	61
20L2B	24	RAL	6,7,9,10	17	36	05
20L8B	24	RAL	6,7,9,10	17	36	26
20P2B	24	RAL	6,7,9,10	17	36	41
20P8B	24	RAL	6,7,9,10	17	36	62
20R4B	24	RAL	1,6,7,9,10	17	36	65
20R6B	24	RAL	1,6,7,9,10	17	36	66
20R8B	24	RAL	1,6,7,9,10	17	36	27
20RP4B	24	RAL	1,6,7,9,10	17	36	46
20RP6B	24	RAL	1,6,7,9,10	17	36	64
20RP8B	24	RAL	1,6,7,9,10	17	36	63

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
National Semiconductor Corp. 20V8 DIP as:						
14H8	24	RAL	6,7,9,10	07	0D	08
14L8	24	RAL	6,7,9,10	07	0D	02
14P8	24	RAL	6,7,9,10	07	0D	38
16H6	24	RAL	6,7,9,10	07	0D	09
16L6	24	RAL	6,7,9,10	07	0D	03
16P6	24	RAL	6,7,9,10	07	0D	39
18H4	24	RAL	6,7,9,10	07	0D	10
18L4	24	RAL	6,7,9,10	07	0D	04
18P4	24	RAL	6,7,9,10	07	0D	40
20H2	24	RAL	6,7,9,10	07	0D	11
20H8	24	RAL	6,7,9,10	07	0D	61
20L2	24	RAL	6,7,9,10	07	0D	05
20L8	24	RAL	6,7,9,10	07	0D	26
20P2	24	RAL	6,7,9,10	07	0D	41
20P8	24	RAL	6,7,9,10	07	0D	62
20R4	24	RAL	1,6,7,9,10	07	0D	65
20R6	24	RAL	1,6,7,9,10	07	0D	66
20R8	24	RAL	1,6,7,9,10	07	0D	27
20RP4	24	RAL	1,6,7,9,10	07	0D	46
20RP6	24	RAL	1,6,7,9,10	07	0D	64
20RP8	24	RAL	1,6,7,9,10	07	0D	63
National Semiconductor Corp. 16V8 DIP as:						
10H8	20	RAL	6,7,9,10	07	0D	18
10L8	20	RAL	6,7,9,10	07	0D	13
10P8	20	RAL	6,7,9,10	07	0D	32
12H6	20	RAL	6,7,9,10	07	0D	19
12L6	20	RAL	6,7,9,10	07	0D	14
12P6	20	RAL	6,7,9,10	07	0D	33
14H4	20	RAL	6,7,9,10	07	0D	20
14L4	20	RAL	6,7,9,10	07	0D	15
14P4	20	RAL	6,7,9,10	07	0D	34
16H2	20	RAL	6,7,9,10	07	0D	22
16H8	20	RAL	6,7,9,10	07	0D	25
16L2	20	RAL	6,7,9,10	07	0D	16
16L8	20	RAL	6,7,9,10	07	0D	17
16P2	20	RAL	6,7,9,10	07	0D	35
16P8	20	RAL	6,7,9,10	07	0D	30
16R4	20	RAL	1,6,7,9,10	07	0D	81
16R6	20	RAL	1,6,7,9,10	07	0D	80
16R8	20	RAL	1,6,7,9,10	07	0D	82
16RP4	20	RAL	1,6,7,9,10	07	0D	85
16RP6	20	RAL	1,6,7,9,10	07	0D	86
16RP8	20	RAL	1,6,7,9,10	07	0D	87

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
National Semiconductor Corp. 16V8/A/QS DIP as:						
10H8A	20	RAL	6,7,9,10	09	0D	18
10L8A	20	RAL	6,7,9,10	09	0D	13
10P8A	20	RAL	6,7,9,10	09	0D	32
12H6A	20	RAL	6,7,9,10	09	0D	19
12L6A	20	RAL	6,7,9,10	09	0D	14
12P6A	20	RAL	6,7,9,10	09	0D	33
14H4A	20	RAL	6,7,9,10	09	0D	20
14L4A	20	RAL	6,7,9,10	09	0D	15
14P4A	20	RAL	6,7,9,10	09	0D	34
16H2A	20	RAL	6,7,9,10	09	0D	22
16H8A	20	RAL	6,7,9,10	09	0D	25
16L2A	20	RAL	6,7,9,10	09	0D	16
16L8A	20	RAL	6,7,9,10	09	0D	17
16P2A	20	RAL	6,7,9,10	09	0D	35
16P8A	20	RAL	6,7,9,10	09	0D	30
16R4A	20	RAL	1,6,7,9,10	09	0D	81
16R6A	20	RAL	1,6,7,9,10	09	0D	80
16R8A	20	RAL	1,6,7,9,10	09	0D	82
16RP4A	20	RAL	1,6,7,9,10	09	0D	85
16RP6A	20	RAL	1,6,7,9,10	09	0D	86
16RP8A	20	RAL	1,6,7,9,10	09	0D	87
National Semiconductor Corp. 20V8/A/QS DIP as:						
14H8A	24	RAL	6,7,9,10	09	0D	08
14L8A	24	RAL	6,7,9,10	09	0D	02
14P8A	24	RAL	6,7,9,10	09	0D	38
16H6A	24	RAL	6,7,9,10	09	0D	09
16L6A	24	RAL	6,7,9,10	09	0D	03
16P6A	24	RAL	6,7,9,10	09	0D	39
18H4A	24	RAL	6,7,9,10	09	0D	10
18L4A	24	RAL	6,7,9,10	09	0D	04
18P4A	24	RAL	6,7,9,10	09	0D	40
20H2A	24	RAL	6,7,9,10	09	0D	11
20H8A	24	RAL	6,7,9,10	09	0D	61
20L2A	24	RAL	6,7,9,10	09	0D	05
20L8A	24	RAL	6,7,9,10	09	0D	26
20P2A	24	RAL	6,7,9,10	09	0D	41
20P8A	24	RAL	6,7,9,10	09	0D	62
20R4A	24	RAL	1,6,7,9,10	09	0D	65
20R6A	24	RAL	1,6,7,9,10	09	0D	66
20R8A	24	RAL	1,6,7,9,10	09	0D	27
20RP4A	24	RAL	1,6,7,9,10	09	0D	46
20RP6A	24	RAL	1,6,7,9,10	09	0D	64
20RP8A	24	RAL	1,6,7,9,10	09	0D	63

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
SGS-Thomson Microelectronics 16V8/AS DIP as:						
10H8	20	RAL	6,7,9,10	07	14	18
10H8A	20	RAL	6,7,9,10	10	14	18
10L8	20	RAL	6,7,9,10	07	14	13
10L8A	20	RAL	6,7,9,10	10	14	13
10P8	20	RAL	6,7,9,10	07	14	32
10P8A	20	RAL	6,7,9,10	10	14	32
12H6	20	RAL	6,7,9,10	07	14	19
12H6A	20	RAL	6,7,9,10	10	14	19
12L6	20	RAL	6,7,9,10	07	14	14
12L6A	20	RAL	6,7,9,10	10	14	14
12P6	20	RAL	6,7,9,10	07	14	33
12P6A	20	RAL	6,7,9,10	10	14	33
14H4	20	RAL	6,7,9,10	07	14	20
14H4A	20	RAL	6,7,9,10	10	14	20
14L4	20	RAL	6,7,9,10	07	14	15
14L4A	20	RAL	6,7,9,10	10	14	15
14P4	20	RAL	6,7,9,10	07	14	34
14P4A	20	RAL	6,7,9,10	10	14	34
16H2	20	RAL	6,7,9,10	07	14	22
16H2A	20	RAL	6,7,9,10	10	14	22
16H8	20	RAL	6,7,9,10	07	14	25
16H8A	20	RAL	6,7,9,10	10	14	25
16L2	20	RAL	6,7,9,10	07	14	16
16L2A	20	RAL	6,7,9,10	10	14	16
16L8	20	RAL	6,7,9,10	07	14	17
16L8A	20	RAL	6,7,9,10	10	14	17
16P2	20	RAL	6,7,9,10	07	14	35
16P2A	20	RAL	6,7,9,10	10	14	35
16P8	20	RAL	6,7,9,10	07	14	30
16P8A	20	RAL	6,7,9,10	10	14	30
16R4	20	RAL	1,6,7,9,10	07	14	81
16R4A	20	RAL	1,6,7,9,10	10	14	81
16R6	20	RAL	1,6,7,9,10	07	14	80
16R6A	20	RAL	1,6,7,9,10	10	14	80
16R8	20	RAL	1,6,7,9,10	07	14	82
16R8A	20	RAL	1,6,7,9,10	10	14	82
16RP4	20	RAL	1,6,7,9,10	07	14	85
16RP4A	20	RAL	1,6,7,9,10	10	14	85
16RP6	20	RAL	1,6,7,9,10	07	14	86
16RP6A	20	RAL	1,6,7,9,10	10	14	86
16RP8	20	RAL	1,6,7,9,10	07	14	87
16RP8A	20	RAL	1,6,7,9,10	10	14	87
SGS-Thomson Microelectronics 20V8/AS DIP as:						
14H8	24	RAL	6,7,9,10	07	14	08
14H8A	24	RAL	6,7,9,10	10	14	08
14L8	24	RAL	6,7,9,10	07	14	02
14L8A	24	RAL	6,7,9,10	10	14	02
14P8	24	RAL	6,7,9,10	07	14	38

Device Part Number	Pins	Part Type	Notes	Adapter Version	Family Code	Pinout Code
SGS-Thomson Microelectronics 20V8/AS DIP as: (continued)						
14P8A	24	RAL	6,7,9,10	10	14	38
16H6	24	RAL	6,7,9,10	07	14	09
16H6A	24	RAL	6,7,9,10	10	14	09
16L6	24	RAL	6,7,9,10	07	14	03
16L6A	24	RAL	6,7,9,10	10	14	03
16P6	24	RAL	6,7,9,10	07	14	39
16P6A	24	RAL	6,7,9,10	10	14	39
18H4	24	RAL	6,7,9,10	07	14	10
18H4A	24	RAL	6,7,9,10	10	14	10
18L4	24	RAL	6,7,9,10	07	14	04
18L4A	24	RAL	6,7,9,10	10	14	04
18P4	24	RAL	6,7,9,10	07	14	40
18P4A	24	RAL	6,7,9,10	10	14	40
20H2	24	RAL	6,7,9,10	07	14	11
20H2A	24	RAL	6,7,9,10	10	14	11
20H8	24	RAL	6,7,9,10	07	14	61
20H8A	24	RAL	6,7,9,10	10	14	61
20L2	24	RAL	6,7,9,10	07	14	05
20L2A	24	RAL	6,7,9,10	10	14	05
20L8	24	RAL	6,7,9,10	07	14	26
20L8A	24	RAL	6,7,9,10	10	14	26
20P2	24	RAL	6,7,9,10	07	14	41
20P2A	24	RAL	6,7,9,10	10	14	41
20P8	24	RAL	6,7,9,10	07	14	62
20P8A	24	RAL	6,7,9,10	10	14	62
20R4	24	RAL	1,6,7,9,10	07	14	65
20R4A	24	RAL	1,6,7,9,10	10	14	65
20R6	24	RAL	1,6,7,9,10	07	14	66
20R6A	24	RAL	1,6,7,9,10	10	14	66
20R8	24	RAL	1,6,7,9,10	07	14	27
20R8A	24	RAL	1,6,7,9,10	10	14	27
20RP4	24	RAL	1,6,7,9,10	07	14	46
20RP4A	24	RAL	1,6,7,9,10	10	14	46
20RP6	24	RAL	1,6,7,9,10	07	14	64
20RP6A	24	RAL	1,6,7,9,10	10	14	64
20RP8	24	RAL	1,6,7,9,10	07	14	63
20RP8A	24	RAL	1,6,7,9,10	10	14	63

FOOTNOTES

1. This device is preloadable. See the section on Adapter-Specific Operating Information for details.
2. This device does not support test vectors.
3. Test vectors may not function properly if a pin other than pin 1 is used as a clock.
4. This device is not register preloadable after the security fuse is blown.
5. This device is not supported by Logic Fingerprint testing.
6. The backwards device test is not supported for this device.
7. This device is electrically erasable. It does not perform non-blank test or illegal bit test.
8. This device has over 10,000 fuses (cells).
9. The continuity test is not supported for this device.
10. This device contains an Electronic ID. If an ID error occurs, the wrong device is selected or the version of this device is not supported. A software update may be required.
11. This device requires that the z-bit (fuse number 5848) must be set to a "1" (zero power standby mode). If you attempt to program it to a '0', it will not program and a verify error will occur.
12. Programming this device requires the use of a special adapter which can be purchased from: Emulation Technology (Address and telephone number are listed below). The part number of the adapter is CS-1-024-DIP24-DATAI/O.

Emulation Technology
2344 Walsh Avenue
Building F
Santa Clara, CA 95051
(408) 982-0660

13. Programming this device requires the use of a special adapter which can be purchased from Emulation Technology or CTI (Address and telephone number are listed below). The Emulation Technology part number is AS-44-28-01P-3TEX. The CTI part number is PD1065-00.

Emulation Technology
2344 Walsh Avenue
Building F
Santa Clara, CA 95051
(408) 982-0660

CTI
14425 N. Scottsdale Road
Suite 300
Scottsdale, AZ 85260
(602) 998-1484

14. Programming this device requires the use of a special adapter which can be purchased from Procon Technologies (Address and telephone number are listed below). The part number of the adapter is 325-028-1221-0286.

Procon Technologies
1333 Lawrence Expressway
Suite 207
Santa Clara, CA 95051
(408) 246-4456

