

```

*****
* SDP-UNIV-20SO (300mil 20Pin SOIC) *
* SDP-UNIV-20SO/200 (207mil 20Pin SOIC) *
* SDP-UNIV-20SS/200 Universal Adapter (20 PINs SSOP) *
* PLCC2020-01 (20 PINs PLCC) *
* Universal Adapter *
* CONNECTION TABLE: *
*****

```

PIN	PLCC/SOIC20	20-Pin DIP	PIN	PLCC/SOIC20	20-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	1	*	20	20
*	2	2	*	19	19
*	3	3	*	18	18
*	4	4	*	17	17
*	5	5	*	16	16
*	6	6	*	15	15
*	7	7	*	14	14
*	8	8	*	13	13
*	9	9	*	12	12
*	10	10	*	11	11

```

*****
* PLCC2824-04 (28 PINs PLCC) (NC =1,8,15,22) *
* CONNECTION TABLE: *
*****

```

PIN	PLCC32	32-Pin DIP	PIN	PLCC32	32-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	NC	*	28	24
*	2	1	*	27	23
*	3	2	*	26	22
*	4	3	*	25	21
*	5	4	*	24	20
*	6	5	*	23	19
*	7	6	*	22	NC
*	8	NC	*	21	18
*	9	7	*	20	17
*	10	8	*	19	16
*	11	9	*	18	15
*	12	10	*	17	14
*	13	11	*	16	13
*	14	12	*	15	NC

```

*****
* PLCC3228-11 (32 PINs PLCC) (NC =1,12,17,26) *
* CONNECTION TABLE: *
*****

```

PIN	PLCC32	32-Pin DIP	PIN	PLCC32	32-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	NC	*	32	28
*	2	1	*	31	27
*	3	2	*	30	26
*	4	3	*	29	25
*	5	4	*	28	24
*	6	5	*	27	23
*	7	6	*	26	NC
*	8	7	*	25	22
*	9	8	*	24	21
*	10	9	*	23	20
*	11	10	*	22	19
*	12	NC	*	21	18
*	13	11	*	20	17
*	14	12	*	19	16
*	15	13	*	18	15
*	16	14	*	17	NC

```
*****
* PLCC3232-11 Universal Adapter (32 PINS PLCC) *
* CONNECTION TABLE: *
*****
```

PIN Names	PLCC32 SOCKET	32-Pin DIP ZIF SOCKET	PIN Names	PLCC32 SOCKET	32-Pin DIP ZIF SOCKET
*	1	1	*	32	32
*	2	2	*	31	31
*	3	3	*	30	30
*	4	4	*	29	29
*	5	5	*	28	28
*	6	6	*	27	27
*	7	7	*	26	26
*	8	8	*	25	25
*	9	9	*	24	24
*	10	10	*	23	23
*	11	11	*	22	22
*	12	12	*	21	21
*	13	13	*	20	20
*	14	14	*	19	19
*	15	15	*	18	18
*	16	16	*	17	17

```
*****
* PLCC4440-01 (44 PINS PLCC) (NC =1,13,23,33) *
* CONNECTION TABLE: *
*****
```

PIN Names	PLCC44 SOCKET	44-Pin DIP ZIF SOCKET	PIN Names	PLCC44 SOCKET	44-Pin DIP ZIF SOCKET
*	1	NC	*	44	40
*	2	1	*	43	39
*	3	2	*	42	38
*	4	3	*	41	37
*	5	4	*	40	36
*	6	5	*	39	35
*	7	6	*	38	34
*	8	7	*	37	33
*	9	8	*	36	32
*	10	9	*	35	31
*	11	10	*	34	30
*	12	11	*	33	NC
*	13	NC	*	32	29
*	14	12	*	31	28
*	15	13	*	30	27
*	16	14	*	29	26
*	17	15	*	28	25
*	18	16	*	27	24
*	19	17	*	26	23
*	20	18	*	25	22
*	21	19	*	24	21
*	22	20	*	23	NC

```
*****
* PLCC4440-02 (44 PINS PLCC) (NC =1,12,23,34) *
* CONNECTION TABLE: *
*****
```

PIN Names	PLCC44 SOCKET	44-Pin DIP ZIF SOCKET	PIN Names	PLCC44 SOCKET	44-Pin DIP ZIF SOCKET
*	1	NC	*	44	40
*	2	1	*	43	39
*	3	2	*	42	38
*	4	3	*	41	37
*	5	4	*	40	36

*	6	5	*	39	35
*	7	6	*	38	34
*	8	7	*	37	33
*	9	8	*	36	32
*	10	9	*	35	31
*	11	10	*	34	NC
*	12	NC	*	33	30
*	13	11	*	32	29
*	14	12	*	31	28
*	15	13	*	30	27
*	16	14	*	29	26
*	17	15	*	28	25
*	18	16	*	27	24
*	19	17	*	26	23
*	20	18	*	25	22
*	21	10	*	24	21
*	22	20	*	23	NC

* SDP-UNIV-16/TS Universal Adapter (16 PINs TSOP) *
* CONNECTION TABLE: *

PIN	TSOP16	16-Pin DIP	PIN	TSOP16	16-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	13	*	16	12
*	2	14	*	15	11
*	3	15	*	14	10
*	4	16	*	13	9
*	5	1	*	12	8
*	6	2	*	11	7
*	7	3	*	10	6
*	8	4	*	9	5

* SDP-UNIV-16SO Universal Adapter (8 or 16 PINs SOIC) *
* SDP-UNIV-16SO/170 Universal Adapter 1.27 pitch *
* CONNECTION TABLE: *

PIN	SOIC16	16-Pin DIP	PIN	SOIC16	16-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	1	*	16	16
*	2	2	*	15	15
*	3	3	*	14	14
*	4	4	*	13	13
*	5	5	*	12	12
*	6	6	*	11	11
*	7	7	*	10	10
*	8	8	*	9	9

* SDP-UNIV-24SS/150 Universal Adapter (24 PINs SSOIC) *
* CONNECTION TABLE: *

PIN	SOIC24	24-Pin DIP	PIN	SOIC24	24-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	1	*	24	24
*	2	2	*	23	23
*	3	3	*	22	22
*	4	4	*	21	21
*	5	5	*	20	20
*	6	6	*	19	19
*	7	7	*	18	18
*	8	8	*	17	17

*	9	9	*	16	16
*	10	10	*	15	15
*	11	11	*	14	14
*	12	12	*	13	13

 * PLCC2828-11 Universal Adapter (28 PINs PLCC) *
 * SDP-UNIV-28SO/300 Universal Adapter (28 PINs SOIC) *
 * SDP-UNIV-28SS/200 Universal Adapter (28 PINs SSOP) *
 * CONNECTION TABLE: *

PIN	SOIC28	28-Pin DIP	PIN	SOIC28	28-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	1	*	28	28
*	2	2	*	27	27
*	3	3	*	26	26
*	4	4	*	25	25
*	5	5	*	24	24
*	6	6	*	23	23
*	7	7	*	22	22
*	8	8	*	21	21
*	9	9	*	20	20
*	10	10	*	19	19
*	11	11	*	18	18
*	12	12	*	17	17
*	13	13	*	16	16
*	14	14	*	15	15

 * SDP-UNIV-48SS/300 Universal Adapter (48 PINs SOP) *
 * CONNECTION TABLE: *

PIN/Signal	48-Lead SOP	48-Pin DIP	PIN/Signal	48-Lead SOP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
*	1	1	*	48	48
*	2	2	*	47	47
*	3	3	*	46	46
*	4	4	*	45	45
*	5	5	*	44	44
*	6	6	*	43	43
*	7	7	*	42	42
*	8	8	*	41	41
*	9	9	*	40	40
*	10	10	*	39	39
*	11	11	*	38	38
*	12	12	*	37	37
*	13	13	*	36	36
*	14	14	*	35	35
*	15	15	*	34	34
*	16	16	*	33	33
*	17	17	*	32	32
*	18	18	*	31	31
*	19	19	*	30	30
*	20	20	*	29	29
*	21	21	*	28	28
*	22	22	*	27	27
*	23	23	*	26	26
*	24	24	*	25	25

 * SDP-UNIV-28TS (8mm * 14mm) *
 * SDP-UNIV-28TSS/170 (173mil pitch 0.65mm) *
 * Universal Adapter (28 PINs TSOP) *
 * CONNECTION TABLE: *

PIN	TSOP28	28-Pin DIP	PIN	TSOP28	28-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	22	*	28	21
*	2	23	*	27	20
*	3	24	*	26	19
*	4	25	*	25	18
*	5	26	*	24	17
*	6	27	*	23	16
*	7	28	*	22	15
*	8	1	*	21	14
*	9	2	*	20	13
*	10	3	*	19	12
*	11	4	*	18	11
*	12	5	*	17	10
*	13	6	*	16	9
*	14	7	*	15	8

* SDP-UNIV-32TS (8mm * 20mm) *

* SDP-UNIV-32TS/W (8mm * 14mm) *

* Universal Adapter (32 Pins TSOP) *

* CONNECTION TABLE: *

PIN	TSOP32	32-Pin DIP	PIN	TSOP32	32-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	25	*	32	24
*	2	26	*	31	23
*	3	27	*	30	22
*	4	28	*	29	21
*	5	29	*	28	20
*	6	30	*	27	19
*	7	31	*	26	18
*	8	32	*	25	17
*	9	1	*	24	16
*	10	2	*	23	15
*	11	3	*	22	14
*	12	4	*	21	13
*	13	5	*	20	12
*	14	6	*	19	11
*	15	7	*	18	10
*	16	8	*	17	9

* SDP-UNIV-40TSS (40 PINs TSSOP) *

* SDP-UNIV-40TS (10mm * 20mm) (40 PINs TSOP) *

* SDP-UNIV-40TS/W (10mm * 14mm) (40 PINs TSOP) *

* Universal Adapter *

* CONNECTION TABLE: *

PIN	TSOP40	40-Pin DIP	PIN	TSOP40	40-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	31	*	40	30
*	2	32	*	39	29
*	3	33	*	38	28
*	4	34	*	37	27
*	5	35	*	36	26
*	6	36	*	35	25
*	7	37	*	34	24
*	8	38	*	33	23
*	9	39	*	32	22
*	10	40	*	31	21
*	11	1	*	30	20
*	12	2	*	29	19
*	13	3	*	28	18

*	14	4	*	27	17
*	15	5	*	26	16
*	16	6	*	25	15
*	17	7	*	24	14
*	18	8	*	23	13
*	19	9	*	22	12
*	20	10	*	21	11

* SDP-UNIV-44/TS Universal Adapter (44 PINs TSOP) *
* CONNECTION TABLE: *

PIN	TSOP44	44-Pin DIP	PIN	TSOP44	44-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	1	*	44	44
*	2	2	*	43	43
*	3	3	*	42	42
*	4	4	*	41	41
*	5	5	*	40	40
*	6	6	*	39	39
*	7	7	*	38	38
*	8	8	*	37	37
*	9	9	*	36	36
*	10	10	*	35	35
*	11	11	*	34	34
*	12	12	*	33	33
*	13	13	*	32	32
*	14	14	*	31	31
*	15	15	*	30	30
*	16	16	*	29	29
*	17	17	*	28	28
*	18	18	*	27	27
*	19	19	*	26	26
*	20	20	*	25	25
*	21	21	*	24	24
*	22	22	*	23	23

* SDP-UNIV-44 (44 PINs PLCC) *
* SDP-UNIV-44C (Clamshell socket) (44 PINs PLCC) *
* Universal Adapter *
* CONNECTION TABLE: *

PIN	PLCC44	44-Pin DIP	PIN	PLCC44	44-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	1	*	44	44
*	2	2	*	43	43
*	3	3	*	42	42
*	4	4	*	41	41
*	5	5	*	40	40
*	6	6	*	39	39
*	7	7	*	38	38
*	8	8	*	37	37
*	9	9	*	36	36
*	10	10	*	35	35
*	11	11	*	34	34
*	12	12	*	33	33
*	13	13	*	32	32
*	14	14	*	31	31
*	15	15	*	30	30
*	16	16	*	29	29
*	17	17	*	28	28
*	18	18	*	27	27
*	19	19	*	26	26
*	20	20	*	25	25
*	21	21	*	24	24

```
*****
* SDP-UNIV-44Q Universal Adapter (44 PINs QFP)          *
* SDP-UNIV-44TQ Universal Adapter (44 PINs TQFP)       *
* CONNECTION TABLE:                                   *
*****
```

PIN	QFP44	44-Pin DIP	PIN	QFP44	44-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	7	*	44	6
*	2	8	*	43	5
*	3	9	*	42	4
*	4	10	*	41	3
*	5	11	*	40	2
*	6	12	*	39	1
*	7	13	*	38	44
*	8	14	*	37	43
*	9	15	*	36	42
*	10	16	*	35	41
*	11	17	*	34	40
*	12	18	*	33	39
*	13	19	*	32	38
*	14	20	*	31	37
*	15	21	*	30	36
*	16	22	*	29	35
*	17	23	*	28	34
*	18	24	*	27	33
*	19	25	*	26	32
*	20	26	*	25	31
*	21	27	*	24	30
*	22	28	*	23	29

```
*****
* SDP-UNIV-44PSO Universal Adapter (44 PINs PSOP)      *
* CONNECTION TABLE:                                   *
*****
```

PIN	PSOP44	44-Pin DIP	PIN	PSOP44	44-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	1	*	44	44
*	2	2	*	43	43
*	3	3	*	42	42
*	4	4	*	41	41
*	5	5	*	40	40
*	6	6	*	39	39
*	7	7	*	38	38
*	8	8	*	37	37
*	9	9	*	36	36
*	10	10	*	35	35
*	11	11	*	34	34
*	12	12	*	33	33
*	13	13	*	32	32
*	14	14	*	31	31
*	15	15	*	30	30
*	16	16	*	29	29
*	17	17	*	28	28
*	18	18	*	27	27
*	19	19	*	26	26
*	20	20	*	25	25
*	21	21	*	24	24
*	22	22	*	23	23

```
*****
* SDP-UNIV-48TSS (10mm * 14mm) (48 PINs TSSOP)        *
* SDP-UNIV-48TS (12mm * 20mm) (48 PINs TSOP)          *
```

```

* SDP-UNIV-48TS/W (12mm * 14mm) (48 PINs TSOP) *
* Universal Adapter *
* CONNECTION TABLE: *
*****

```

PIN/Signal	48-Lead TSOP	48-Pin DIP	PIN/Signal	48-Lead TSOP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
*	13	1	*	12	48
*	14	2	*	11	47
*	15	3	*	10	46
*	16	4	*	9	45
*	17	5	*	8	44
*	18	6	*	7	43
*	19	7	*	6	42
*	20	8	*	5	41
*	21	9	*	4	40
*	22	10	*	3	39
*	23	11	*	2	38
*	24	12	*	1	37
*	25	13	*	48	36
*	26	14	*	47	35
*	27	15	*	46	34
*	28	16	*	45	33
*	29	17	*	44	32
*	30	18	*	43	31
*	31	19	*	42	30
*	32	20	*	41	29
*	33	21	*	40	28
*	34	22	*	39	27
*	35	23	*	38	26
*	36	24	*	37	25

```

*****
* SDP-UNIV-42SD Shrink DIP Universal Adapter (42 PINs SDIP) *
* CONNECTION TABLE: *
*****

```

PIN	SDIP	42-Pin DIP	PIN	SDIP	42-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	1	*	42	42
*	2	2	*	41	41
*	3	3	*	40	40
*	4	4	*	39	39
*	5	5	*	38	38
*	6	6	*	37	37
*	7	7	*	36	36
*	8	8	*	35	35
*	9	9	*	34	34
*	10	10	*	33	33
*	11	11	*	32	32
*	12	12	*	31	31
*	13	13	*	30	30
*	14	14	*	29	29
*	15	15	*	28	28
*	16	16	*	27	27
*	17	17	*	26	26
*	18	18	*	25	25
*	19	19	*	24	24
*	20	20	*	23	23
*	21	21	*	22	22

```

*****
* SDP-5128-68 Altera EPM5128,Cypress CY7C342 (68 PINs PLCC) *
* CONNECTION TABLE: *
*****

```

[Note]: Please connect all the NC Pins to GND with a 10k resistor (one resistor for each pin)

PIN/Signal	68-Lead PLCC	40-Pin DIP	PIN/Signal	68-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
INPUT/CLK	1	NC	INPUT	68	37
INPUT	2	NC	GND	67	NC
VCC	3	40	INPUT	66	36
I/O	4	1	I/O	65	35
I/O	5	NC	I/O	64	NC
I/O	6	NC	I/O	63	NC
I/O	7	NC	I/O	62	NC
I/O	8	NC	I/O	61	NC
I/O	9	2	I/O	60	34
I/O	10	3	I/O	59	33
I/O	11	4	I/O	58	32
I/O	12	5	I/O	57	31
I/O	13	NC	I/O	56	NC
I/O	14	NC	I/O	55	NC
I/O	15	6	VCC	54	40
GND	16	20	I/O	53	30
I/O	17	7	I/O	52	NC
I/O	18	NC	I/O	51	29
I/O	19	8	GND	50	20
VCC	20	40	I/O	49	28
I/O	21	NC	I/O	48	NC
I/O	22	NC	I/O	47	NC
I/O	23	9	I/O	46	27
I/O	24	10	I/O	45	26
I/O	25	11	I/O	44	25
I/O	26	12	I/O	43	24
I/O	27	NC	I/O	42	NC
I/O	28	NC	I/O	41	NC
I/O	29	NC	I/O	40	NC
I/O	30	NC	I/O	39	NC
I/O	31	13	I/O	38	23
INPUT	32	NC	VCC	37	40
GND	33	20	INPUT	36	22
INPUT	34	14	INPUT	35	21

```
*****
* SDP-7064-68 Altera EPM7064/7096(68 PINs PLCC) *
* CONNECTION TABLE: *
*****
```

[Note]: Please connect all the NC Pins to GND with a 10k resistor
(one resistor for each pin)

PIN/Signal	68-Lead PLCC	48-Pin DIP	PIN/Signal	68-Lead PLCC	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
GCLRn/INPUT	1	1	OE1n/INPUT	68	48
OE2n/INPUT	2	2	GCLK/INPUT	67	43
VCC	3	44	GND	66	24
I/O	4	3	I/O	65	42
I/O	5	NC	I/O	64	41
GND	6	24	VCC	63	44
I/O	7	NC	I/O	62	40
I/O	8	4	I/O	61	NC
I/O	9	5	I/O	60	NC
I/O	10	6	I/O	59	39
VCC	11	44	GND	58	24
I/O	12	7	I/O	57	38
I/O	13	8	I/O	56	37
I/O	14	9	I/O	55	36
I/O	15	10	I/O	54	35
GND	16	24	VCC	53	44
I/O	17	11	I/O	52	34
I/O	18	NC	I/O	51	NC
I/O	19	12	I/O	50	33
I/O	20	NC	I/O	49	NC
VCC	21	44	GND	48	24
I/O	22	13	I/O	47	NC

I/O	23	14	I/O	46	32
I/O	24	15	I/O	45	31
I/O	25	16	I/O	44	NC
GND	26	24	VCC	43	44
I/O	27	17	I/O	42	30
I/O	28	18	I/O	41	29
I/O	29	19	I/O	40	28
I/O	30	20	I/O	39	27
VCC	31	44	GND	38	24
I/O	32	21	I/O	37	26
I/O	33	22	I/O	36	25
GND	34	24	VCC	35	44

```
*****
* SDP-5192-84 Altera EPM5192(84 PINS PLCC) *
* CONNECTION TABLE: *
*****
```

[Note]: Please connect all the NC Pins to GND with a 10k resistor
(one resistor for each pin)

PIN/Signal	84-Lead PLCC	40-Pin DIP	PIN/Signal	84-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
INPUT/CLK	1	NC	INPUT	84	39
INPUT	2	NC	INPUT	83	38
VCC	3	40	GND	82	20
I/O	4	NC	GND	81	20
I/O	5	NC	I/O	80	NC
I/O	6	NC	I/O	79	NC
I/O	7	NC	I/O	78	NC
I/O	8	NC	I/O	77	NC
I/O	9	1	I/O	76	NC
I/O	10	2	I/O	75	NC
I/O	11	3	I/O	74	NC
I/O	12	4	I/O	73	37
I/O	13	NC	I/O	72	36
I/O	14	5	I/O	71	NC
I/O	15	6	I/O	70	NC
I/O	16	7	I/O	69	35
I/O	17	8	I/O	68	34
GND	18	20	I/O	67	33
GND	19	20	VCC	66	40
I/O	20	NC	I/O	65	NC
I/O	21	9	I/O	64	32
I/O	22	10	I/O	63	31
I/O	23	NC	I/O	62	NC
VCC	24	40	GND	61	20
I/O	25	11	GND	60	20
I/O	26	12	I/O	59	30
I/O	27	13	I/O	58	29
I/O	28	14	I/O	57	28
I/O	29	NC	I/O	56	27
I/O	30	15	I/O	55	NC
I/O	31	16	I/O	54	26
I/O	32	NC	I/O	53	25
I/O	33	NC	I/O	52	24
I/O	34	NC	I/O	51	23
I/O	35	NC	I/O	50	NC
I/O	36	NC	I/O	49	NC
I/O	37	NC	I/O	48	NC
I/O	38	NC	I/O	47	NC
GND	39	20	I/O	46	NC
GND	40	20	VCC	45	40
INPUT	41	NC	INPUT	44	22
INPUT	42	17	INPUT	43	21

```
*****
* SDP-7064-84 Altera EPM7064/7096(84 PINS PLCC) *
*****
```

* CONNECTION TABLE: *

[Note]: Please connect all the NC Pins to GND with a 10k resistor
(one resistor for each pin)

PIN/Signal	84-Lead PLCC	48-Pin DIP	PIN/Signal	84-Lead PLCC	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
GCLRn/INPUT	1	5	OE1n/INPUT	84	43
OE2n/INPUT	2	6	GCLK/INPUT	83	42
VCC	3	44	GND	82	24
I/O	4	7	I/O	81	41
I/O	5	NC	I/O	80	48
I/O	6	NC	I/O	79	40
GND	7	24	VCC	78	44
I/O	8	NC	I/O	77	39
I/O	9	NC	I/O	76	NC
I/O	10	8	I/O	75	38
I/O	11	NC	I/O	74	NC
I/O	12	2	I/O	73	47
VCC	13	44	GND	72	24
I/O	14	9	I/O	71	37
I/O	15	NC	I/O	70	NC
I/O	16	10	I/O	69	36
I/O	17	11	I/O	68	35
I/O	18	3	I/O	67	34
GND	19	24	VCC	66	44
I/O	20	12	I/O	65	33
I/O	21	NC	I/O	64	NC
I/O	22	NC	I/O	63	NC
I/O	23	13	I/O	62	32
I/O	24	NC	I/O	61	NC
I/O	25	NC	I/O	60	NC
VCC	26	44	GND	59	24
I/O	27	4	I/O	58	NC
I/O	28	22	I/O	57	46
I/O	29	14	I/O	56	31
I/O	30	NC	I/O	55	NC
I/O	31	15	I/O	54	30
GND	32	24	VCC	53	44
I/O	33	16	I/O	52	29
I/O	34	NC	I/O	51	NC
I/O	35	17	I/O	50	28
I/O	36	18	I/O	49	27
I/O	37	19	I/O	48	26
VCC	38	44	GND	47	24
I/O	39	20	I/O	46	25
I/O	40	45	I/O	45	1
I/O	41	21	I/O	44	23
GND	42	24	VCC	43	44

* SDP-7128-84 Altera EPM7128/E(84 PINs PLCC) *

* CONNECTION TABLE: *

[Note]: Please connect all the NC Pins to GND with a 10k resistor
(one resistor for each pin)

PIN/Signal	84-Lead PLCC	48-Pin DIP	PIN/Signal	84-Lead PLCC	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
GCLRn/INPUT	1	1	OE1n/INPUT	84	46
OE2n/INPUT	2	2	GCLK/INPUT	83	45
VCC	3	44	GND	82	24
I/O	4	3	I/O	81	48
I/O	5	NC	I/O	80	NC
I/O	6	4	I/O	79	NC
GND	7	24	VCC	78	44
I/O	8	5	I/O	77	43
I/O	9	6	I/O	76	NC

I/O	10	NC	I/O	75	NC
I/O	11	7	I/O	74	NC
I/O	12	8	I/O	73	42
VCC	13	44	GND	72	24
I/O	14	9	I/O	71	41
I/O	15	10	I/O	70	40
I/O	16	NC	I/O	69	39
I/O	17	NC	I/O	68	NC
I/O	18	NC	I/O	67	38
GND	19	24	VCC	66	44
I/O	20	11	I/O	65	37
I/O	21	12	I/O	64	36
I/O	22	NC	I/O	63	NC
I/O	23	13	I/O	62	35
I/O	24	NC	I/O	61	NC
I/O	25	NC	I/O	60	34
VCC	26	44	GND	59	24
I/O	27	NC	I/O	58	NC
I/O	28	NC	I/O	57	33
I/O	29	NC	I/O	56	NC
I/O	30	14	I/O	55	32
I/O	31	15	I/O	54	31
GND	32	24	VCC	53	44
I/O	33	16	I/O	52	30
I/O	34	17	I/O	51	29
I/O	35	18	I/O	50	28
I/O	36	NC	I/O	49	NC
I/O	37	19	I/O	48	27
VCC	38	44	GND	47	24
I/O	39	20	I/O	46	26
I/O	40	21	I/O	45	25
I/O	41	NC	I/O	44	NC
GND	42	24	VCC	43	44

* SDP-7160-84 Altera EPM7160/E (84 PINs PLCC) *
* CONNECTION TABLE: *

[Note]: Please connect all the NC Pins to GND with a 10k resistor
(one resistor for each pin)

PIN/Signal 84-Lead PLCC			48-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
GCLRn/INPUT	1	3	OE1n/INPUT	84	45
OE2n/INPUT	2	4	GCLK/INPUT	83	46
VCC	3	44	GND	82	24
I/O	4	5	I/O	81	43
I/O	5	NC	I/O	80	NC
N.C	6	NC	N.C	79	NC
GND	7	24	VCC	78	44
I/O	8	6	I/O	77	NC
I/O	9	7	I/O	76	NC
I/O	10	8	I/O	75	42
I/O	11	1	I/O	74	41
I/O	12	9	I/O	73	40
VCC	13	44	GND	72	24
I/O	14	NC	I/O	71	NC
I/O	15	10	I/O	70	NC
I/O	16	11	I/O	69	39
I/O	17	12	I/O	68	38
I/O	18	NC	I/O	67	37
GND	19	24	VCC	66	44
I/O	20	NC	I/O	65	NC
I/O	21	NC	I/O	64	36
I/O	22	13	I/O	63	35
I/O	23	NC	I/O	62	NC
I/O	24	NC	I/O	61	NC
I/O	25	14	I/O	60	34
VCC	26	44	GND	59	24

I/O	27	15	I/O	58	33
I/O	28	NC	I/O	57	NC
I/O	29	NC	I/O	56	NC
I/O	30	16	I/O	55	32
I/O	31	17	I/O	54	31
GND	32	24	VCC	53	44
I/O	33	18	I/O	52	30
I/O	34	19	I/O	51	29
I/O	35	20	I/O	50	28
I/O	36	NC	I/O	49	NC
I/O	37	21	I/O	48	27
VCC	38	44	GND	47	24
N.C	39	NC	N.C	46	NC
I/O	40	22	I/O	45	26
I/O	41	23	I/O	44	25
GND	42	24	VCC	43	44

```
*****
* SDP-7064-100Q Altera EPM7064(100 PINs QFP) *
* CONNECTION TABLE: *
*****
```

[Note]: Please connect all the NC Pins to GND with 10k resistors (one resister for each pin).

PIN/Signal 100-Lead QFP 40-Pin DIP			PIN/Signal 100-Lead QFP 40-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
NC	1	1	I/O	100	NC
NC	2	NC	I/O	99	NC
I/O	3	NC	I/O	98	NC
I/O	4	NC	GND	97	20
VCC	5	40	I/O	96	NC
I/O	6	36	I/O	95	NC
NC	7	NC	VCC	94	34
I/O	8	NC	VCC	93	40
NC	9	NC	OE2n/INPUT	92	33
I/O	10	37	GCLRn/INPUT	91	35
I/O	11	39	OE1n/INPUT	90	32
I/O	12	NC	GCLK/INPUT	89	31
GND	13	20	GND	88	20
I/O	14	38	I/O	87	30
I/O	15	NC	I/O	86	NC
I/O	16	NC	I/O	85	29
I/O	17	1	VCC	84	40
I/O	18	NC	I/O	83	28
I/O	19	NC	I/O	82	NC
VCC	20	40	I/O	81	NC
I/O	21	NC	NC	80	NC
I/O	22	NC	NC	79	NC
I/O	23	NC	I/O	78	NC
NC	24	NC	I/O	77	NC
I/O	25	NC	GND	76	20
NC	26	NC	I/O	75	NC
I/O	27	2	NC	74	NC
GND	28	20	I/O	73	NC
NC	29	NC	NC	72	NC
NC	30	NC	I/O	71	27
I/O	31	3	I/O	70	NC
I/O	32	NC	I/O	69	26
I/O	33	4	VCC	68	40
I/O	34	8	I/O	67	25
I/O	35	5	I/O	66	NC
VCC	36	40	I/O	65	NC
I/O	37	6	I/O	64	14
I/O	38	NC	I/O	63	NC
I/O	39	7	I/O	62	NC
GND	40	20	GND	61	20
VCC	41	40	I/O	60	NC
I/O	42	9	I/O	59	NC
I/O	43	NC	I/O	58	NC

I/O	44	10	NC	57	NC
GND	45	20	I/O	56	NC
I/O	46	11	NC	55	NC
I/O	47	13	I/O	54	20
I/O	48	12	VCC	53	40
I/O	49	NC	NC	52	NC
I/O	50	20	NC	51	NC

```
*****
* SDP-7096-100Q Altera EPM7096(100 PINs QFP) *
* CONNECTION TABLE: *
*****
```

[Note]: Please connect all the NC Pins to GND with 10k resistors (one resister for each pin).

PIN/Signal 100-Lead QFP 40-Pin DIP			PIN/Signal 100-Lead QFP 40-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
*	1	16	*	100	NC
GND	2	20	I/O	99	13
VCC	3	40	*	98	NC
GND	4	20	I/O	97	12
*	5	NC	VCC	96	40
*	6	14	GND	95	7
*	7	NC	*	94	NC
*	8	NC	I/O	93	11
GND	9	20	I/O	92	10
*	10	NC	VCC	91	40
GND	11	20	GND	90	20
*	12	NC	I/O	89	6
*	13	NC	GND	88	9
*	14	NC	*	87	NC
*	15	NC	VCC	86	40
*	16	NC	*	85	NC
*	17	NC	I/O	84	8
VCC	18	40	*	83	NC
*	19	NC	I/O	82	7
*	20	NC	*	81	NC
*	21	NC	I/O	80	5
I/O	22	21	I/O	79	3
I/O	23	23	GND	78	20
*	24	NC	*	77	NC
I/O	25	24	*	76	NC
GND	26	20	I/O	75	2
*	27	NC	*	74	NC
I/O	28	25	I/O	73	1
*	29	NC	I/O	72	4
*	30	NC	*	71	NC
*	31	NC	VCC	70	40
I/O	32	28	*	69	NC
*	33	NC	*	68	NC
VCC	34	40	*	67	NC
*	35	NC	*	66	NC
VCC	36	28	*	65	NC
I/O	37	26	*	64	NC
GND	38	20	GND	63	20
I/O	39	27	I/O	62	38
GND	40	30	GND	61	20
VCC	41	33	I/O	60	37
I/O	42	31	*	59	NC
VCC	43	40	I/O	58	36
I/O	44	32	*	57	NC
*	45	NC	I/O	56	35
GND	46	20	VCC	55	40
*	47	NC	*	54	NC
*	48	NC	I/O	53	39
*	49	NC	I/O	52	34
*	50	NC	*	51	NC

```
*****
* SDP-7128-100Q Altera EPM7128/E (100 PINs QFP) *
* CONNECTION TABLE: *
*****
```

[Note]: Please connect all the NC Pins to GND
with a 10k resistor (one resistor for each pin)

PIN/Sig.	100 QFP	48 DIP	PIN/Sig.	100 QFP	48 DIP
Names	SOCKET	Base	Names	SOCKET	Base
I/O	1	NC	I/O	100	40
I/O	2	42	I/O	99	NC
I/O	3	47	I/O	98	39
I/O	4	NC	GND	97	24
VCC	5	44	I/O	96	38
I/O	6	43	I/O	95	NC
I/O	7	NC	I/O	94	37
I/O	8	45	VCC	93	44
I/O	9	NC	OE2n	92	36
I/O	10	NC	GCLRn	91	41
I/O	11	NC	OE1n	90	35
I/O	12	NC	GCLK	89	34
GND	13	24	GND	88	24
I/O	14	46	I/O	87	33
I/O	15	48	I/O	86	NC
I/O	16	NC	I/O	85	NC
I/O	17	1	VCC	84	44
I/O	18	NC	I/O	83	32
I/O	19	NC	I/O	82	NC
VCC	20	44	I/O	81	NC
I/O	21	NC	I/O	80	NC
I/O	22	NC	I/O	79	NC
I/O	23	NC	I/O	78	31
I/O	24	NC	I/O	77	NC
I/O	25	2	GND	76	24
I/O	26	4	I/O	75	28
I/O	27	NC	I/O	74	NC
GND	28	24	I/O	73	27
I/O	29	3	I/O	72	30
I/O	30	NC	I/O	71	NC
I/O	31	5	I/O	70	29
I/O	32	7	I/O	69	NC
I/O	33	NC	VCC	68	44
I/O	34	8	I/O	67	26
I/O	35	NC	I/O	66	20
VCC	36	44	I/O	65	NC
I/O	37	6	I/O	64	19
I/O	38	9	I/O	63	NC
I/O	39	NC	I/O	62	18
GND	40	24	GND	61	24
VCC	41	44	I/O	60	NC
I/O	42	NC	I/O	59	NC
I/O	43	12	I/O	58	17
I/O	44	10	I/O	57	NC
GND	45	24	I/O	56	16
I/O	46	NC	I/O	55	21
I/O	47	13	I/O	54	NC
I/O	48	NC	VCC	53	44
I/O	49	14	I/O	52	15
I/O	50	11	I/O	51	NC

```
*****
* SDP-7160-100Q Altera EPM7160/E (100 PINs QFP) *
* CONNECTION TABLE: *
*****
```

[Note]: Please connect all the NC Pins to GND
with a 10k resistor (one resistor for each pin)

PIN/Signal Names	100-QFP SOCKET	48-Pin DIP	PIN/Signal Names	100-QFP SOCKET	48-Pin DIP
I/O	1	8	I/O	100	NC
I/O	2	1	I/O	99	7
I/O	3	9	I/O	98	6
I/O	4	NC	GND	97	24
VCCIO	5	44	I/O	96	NC
I/O	6	NC	I/O	95	NC
I/O	7	10	I/O	94	5
I/O	8	11	VCCINT	93	44
I/O	9	NC	INPUT/OE2/GCLK2	92	4
I/O	10	12	INPUT/GCLRn	91	3
I/O	11	NC	INPUT/OE1	90	45
I/O	12	NC	INPUT/GCLK1	89	46
GND	13	24	GND	88	24
I/O	14	NC	I/O	87	43
I/O	15	NC	I/O	86	NC
I/O	16	13	I/O	85	NC
I/O	17	NC	VCCIO	84	44
I/O	18	NC	I/O	83	NC
I/O	19	14	I/O	82	NC
VCCIO	20	44	I/O	81	NC
I/O	21	NC	I/O	80	42
I/O	22	15	I/O	79	41
I/O	23	NC	I/O	78	40
I/O	24	NC	I/O	77	NC
I/O	25	NC	GND	76	24
I/O	26	NC	I/O	75	NC
I/O	27	NC	I/O	74	NC
GND	28	24	I/O	73	39
I/O	29	NC	I/O	72	NC
I/O	30	18	I/O	71	38
I/O	31	19	I/O	70	37
I/O	32	20	I/O	69	NC
I/O	33	NC	VCCIO	68	44
I/O	34	NC	I/O	67	NC
I/O	35	21	I/O	66	36
VCCIO	36	44	I/O	65	35
I/O	37	22	I/O	64	NC
I/O	38	NC	I/O	63	NC
I/O	39	23	I/O	62	34
GND	40	24	GND	61	24
VCCINT	41	44	I/O	60	NC
I/O	42	25	I/O	59	33
I/O	43	NC	I/O	58	NC
I/O	44	26	I/O	57	NC
GND	45	24	I/O	56	NC
I/O	46	27	I/O	55	NC
I/O	47	NC	I/O	54	NC
I/O	48	NC	VCCIO	53	44
I/O	49	28	I/O	52	NC
I/O	50	29	I/O	51	30

* SDP-M120-68 AMD MACH120/220/221 (68 PINs PLCC) *
* CONNECTION TABLE: *

[Note]:
1.Please connect all the NC Pins to GND with a 10k resistor
(one resistor for each pin)
2.A 1f tantalum capacitor should be put between VCC and GND.

PIN/Signal Names	68-Lead PLCC SOCKET	28-Pin DIP Base	PIN/Signal Names	68-Lead PLCC SOCKET	28-Pin DIP Base
GND	1	14	VCC	68	28
I/O0	2	NC	I/O47	67	NC
I/O1	3	NC	I/O46	66	NC
I/O2	4	NC	I/O45	65	NC
I/O3	5	NC	I/O44	64	NC

I/O4	6	NC	I/O43	63	24
I/O5	7	5	I/O42	62	23
GND	8	14	GND	61	14
I/O6	9	2	I/O41	60	27
I/O7	10	NC	I/O40	59	NC
I/O8	11	NC	I/O39	58	NC
I/O9	12	NC	I/O38	57	NC
I/O10	13	NC	I/O37	56	NC
I/O11	14	1	I/O36	55	22
CLK0/I0	15	NC	I7	54	21
CLK1/I1	16	6	GND	53	14
I2	17	7	VCC	52	28
VCC	18	28	I6	51	20
GND	19	14	CLK3/I5	50	19
I3	20	8	CLK2/I4	49	26
I/O12	21	9	I/O35	48	18
I/O13	22	10	I/O34	47	NC
I/O14	23	NC	I/O33	46	NC
I/O15	24	NC	I/O32	45	NC
I/O16	25	NC	I/O31	44	NC
I/O17	26	11	I/O30	43	17
GND	27	14	GND	42	14
I/O18	28	12	I/O29	41	16
I/O19	29	13	I/O28	40	NC
I/O20	30	NC	I/O27	39	NC
I/O21	31	15	I/O26	38	NC
I/O22	32	NC	I/O25	37	NC
I/O23	33	NC	I/O24	36	NC
VCC	34	28	GND	35	14

```
*****
* SDP-M130-84 AMD MACH130/230/435 (84 PINs PLCC) *
* CONNECTION TABLE: *
*****
```

[Note]:

1. Please connect all the NC Pins to GND with a 10k resistor
(one resistor for each pin)
2. A 1f tantalum capacitor should be put between VCC and GND.

PIN/Signal 84-Lead PLCC 24-Pin DIP			PIN/Signal 84-Lead PLCC 24-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
GND	1	12	VCC	84	22
VCC	2	22	I5	83	23
I/O0	3	NC	I/O63	82	NC
I/O1	4	NC	I/O62	81	NC
I/O2	5	NC	I/O61	80	NC
I/O3	6	NC	I/O60	79	NC
I/O4	7	NC	I/O59	78	NC
I/O5	8	NC	I/O58	77	NC
I/O6	9	NC	I/O57	76	NC
I/O7	10	1	I/O56	75	21
GND	11	12	GND	74	12
I/O8	12	2	I/O55	73	20
I/O9	13	NC	I/O54	72	NC
I/O10	14	NC	I/O53	71	NC
I/O11	15	NC	I/O52	70	NC
I/O12	16	NC	I/O51	69	NC
I/O13	17	NC	I/O50	68	NC
I/O14	18	NC	I/O49	67	NC
I/O15	19	3	I/O48	66	19
CLK1/I0	20	4	CLK3/I4	65	18
VCC	21	22	GND	64	12
GND	22	12	VCC	63	22
CLK1/I1	23	5	CLK2/I3	62	17
I/O16	24	6	I/O47	61	16
I/O17	25	7	I/O46	60	NC
I/O18	26	NC	I/O45	59	NC
I/O19	27	NC	I/O44	58	NC
I/O20	28	NC	I/O43	57	NC

I/O21	29	NC	I/O42	56	NC
I/O22	30	NC	I/O41	55	NC
I/O23	31	8	I/O40	54	15
GND	32	12	GND	53	12
I/O24	33	9	I/O39	52	14
I/O25	34	10	I/O38	51	NC
I/O26	35	NC	I/O37	50	NC
I/O27	36	NC	I/O36	49	NC
I/O28	37	NC	I/O35	48	NC
I/O29	38	11	I/O34	47	NC
I/O30	39	NC	I/O33	46	NC
I/O31	40	NC	I/O32	45	NC
I2	41	13	VCC	44	22
VCC	42	22	GND	43	12

```
*****
* SDP-M131-100Q AMD MACH445/131/231SP (100 PINs PQFP) *
* CONNECTION TABLE: *
*****
```

[Note]:

1.A 1uF tantalum capacitor should be put between VCC and GND.

PIN/Signal	100-Lead PQFP	28-Pin DIP	PIN/Signal	100-Lead PQFP	28-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
TDI/TDI	3	1	VCC/VCC	14,15,39,	28
TMS/NC	27	2	VCC/VCC	42,64,65,	28
TCK/TCK	28	3	VCC/VCC	89,92	28
ENABLE/TMS	53	4	NC/EN8x2	70	27
TRST/NC	77	5	NC/EN8x1	69	26
TDO/TDO	78	6	NC/NC	NC	25
NC/IO9	6	7	NC/NC	NC	24
NC/IO22	25	8	NC/IO6	99	23
NC/IO25	32	9	SIO7/NC	100	22
NC/IO38	49	10	SIO56/NC	81	21
NC/IO41	56	11	SIO55/NC	76	20
NC/IO54	75	12	SIO40/NC	55	19
NC/IO57	82	13	SIO39/NC	50	18
GND/GND	1,2,16,17,29,30,	14	SIO24/NC	31	17
GND/GND	40,41,51,52,66,	14	SIO23/NC	26	16
GND/GND	67,79,80,90,91	14	SIO8/NC	5	15

4,7-13,18-24,33-38,
43-48,54,57-63,68, (10k omh resister on each pin to GND)
71,74,83,88,93,98

```
*****
* SDP-9572-84 Xilinx XC9572 (84 PINs PLCCQFP) *
* CONNECTION TABLE: *
*****
```

PIN/Signal	84-Lead PLCC	40-Pin DIP	PIN/Signal	84-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
VPP	78	1	VCC	22,38,64,73	40
TSTEN	1	2		NC	39
PGMEN	3	3		NC	38
VFYEN	5	4		NC	37
AD_STB	65	5		NC	36
TS0	69	6	A14	68	35
TS1	70	7	A13	67	34
TS2	71	8	A12	66	33
TS3	72	9	A11	43	32
D0	14	10	A10	41	31
D1	15	11	A9	40	30
D2	17	12	A8	32	29
D3	19	13	A7	31	28
D4	21	14	A6	20	27
D5	33	15	A5	18	26

D6	36	16	A4	13	25
D7	37	17	A3	6	24
	NC	18	A2	4	23
	NC	19	A1	82	22
GND	8,16,27,42,49,60	20	A0	80	21

75,76,77,79,81,83,84,2,7,9,10,
11,12,23,24,25,26,28,29,30,34,
35,39,44,45,46,47,48,50,51,52,
53,54,55,56,57,58,59,61,62,63,74

Must be connected to
VCC(40) or GND(20)

* SDP-95108-84 Xilinx XC95108 (84 PINs PLCC) *
* CONNECTION TABLE: *

PIN/Signal	84-Lead PLCC	40-Pin DIP	PIN/Signal	84-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
VPP	78	1	VCC	22,38,64,73	40
VFYEN	80	2		NC	39
AD_STB	82	3		NC	38
PGMEN	83	4		NC	37
TSTEN	1	5		NC	36
TS0	3	6		NC	35
TS1	4	7	A7	72	34
TS2	5	8	A6	71	33
TS3	6	9	A5	70	32
A8	13	10	A4	69	31
A9	14	11	A3	68	30
A10	15	12	A2	67	29
A11	17	13	A1	66	28
A12	18	14	A0	65	27
A13	19	15	D7	41	26
A14	20	16	D6	40	25
A15	21	17	D5	39	24
D0	31	18	D4	37	23
D1	32	19	D3	36	22
GND	81,8,16,27,28,29,	20	D2	33	21
GND	30,42,49,59,60	20			

2,7,9,10,11,12,23,24,25,26,
34,35,43,44,45,46,47,48,50,
51,52,53,54,55,56,57,58,61,
62,63 74,75,76,77,79,84

Must be connected to
VCC(40) or GND(20)

* SDP-95108-100Q Xilinx XC95108 (100 PINs PQFP) *
* CONNECTION TABLE: *

PIN/Signal	100-Lead PQFP	40-Pin DIP	PIN/Signal	100-Lead PQFP	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
VPP	7	1	VCC	28,40,53,59,90,100	40
VFYEN	10	2		NC	39
AD_STB	12	3		NC	38
PGMEN	13	4		NC	37
TSTEN	15	5		NC	36
TS0	17	6		NC	35
TS1	18	7	A7	99	34
TS2	19	8	A6	98	33
TS3	20	9	A5	97	32
A8	30	10	A4	96	31
A9	31	11	A3	95	30
A10	32	12	A2	93	29
A11	34	13	A1	92	28
A12	35	14	A0	91	27
A13	37	15	D7	63	26
A14	38	16	D6	62	25

A15	39	17	D5	60	24
D0	51	18	D4	58	23
D1	52	19	D3	57	22
GND	11,23,33,46,47,49,	20	D2	54	21
GND	50,64,71,77,85,86,2	20			

3,4,5,6,8,9,14,16,21,22,24,25,26,27,	Must be connected to VCC(40) or GND(20)
29,36,41,42,43,44,45,48,55,56,61,65,	
66,67,68,69,70,72,73,74,75,76,78,79,	
80,81,82,83,84,87,88,89,94,1	

* SDP-6811-52 Motorola MC68HC711E9 (52 PINs PLCC) *

* CONNECTION TABLE: *

PIN/Signal	52-Lead PLCC	40-Pin DIP	PIN/Signal	52-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
VSS	1	1	VRH	52	NC
MODB/VSTBY	2	36	VRL	51	NC
MODA/LIR	3	37	PE7	50	NC
STRA/AS	4	12	PE3	49	NC
E	5	38	PE6	48	NC
STRB/RW	6	11	PE2	47	NC
EXTAL	7	39	PE5	46	NC
XTAL	8	40	PE1	45	NC
PC0	9	2	PE4	44	NC
PC1	10	3	PE0	43	NC
PC2	11	4	PB0	42	35
PC3	12	5	PB1	41	34
PC4	13	6	PB2	40	33
PC5	14	7	PB3	39	32
PC6	15	8	PB4	38	31
PC7	16	9	PB5	37	30
RESET	17	13	PB6	36	29
XIRQ/VPP	18	10	PB7	35	28
IRQ	19	14	PA0	34	27
PD0	20	15	PA1	33	26
PD1	21	16	PA2	32	25
PD2	22	17	PA3	31	24
PD3	23	18	PA4	30	NC
PD4	24	19	PA5	29	23
PD5	25	20	PA6	28	NC
VDD	26	21	PA7	27	22

* SDP-705B-52 Motorola MC68HC705B5 B16 B32 (52 PINs PLCC) *

* CONNECTION TABLE: *

PIN/Signal	52-Lead PLCC	40-Pin DIP	PIN/Signal	52-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
TCMP1	1	1	TDO	52	39
TCMP2	2	2	SCLK	51	38
PD7	3	3	RDI	50	37
PD6	4	4	PC0	49	NC
PD5	5	5	PC1	48	NC
NC	6	NC	PC2	47	NC
VRL	7	6	PC3	46	NC
VRH	8	7	PC4	45	NC
PD4	9	8	PC5	44	36
VDD	10	40	PC6	43	35
PD3	11	9	PC7	42	34
PD2	12	10	VSS	41	20
PD1	13	11	VPP1	40	NC
PD0	14	12	PB0	39	32
VPP6	15	13	PB1	38	31
OSC1	16	14	PB2	37	NC

OSC2	17	15	PB3	36	NC
/RESET	18	16	PB4	35	NC
/IRQ	19	17	PB5	34	NC
PLMA	20	18	PB6	33	NC
PLMB	21	19	PB7	32	NC
TCAP1	22	21	PA0	31	30
TCAP2	23	22	PA1	30	29
PA7	24	23	PA2	29	28
PA6	25	24	PA3	28	27
PA5	26	25	PA4	27	26

```
*****
* SDP-C530-52 Dallas DS87C530 (52 PINs PLCC) *
* CONNECTION TABLE: *
*****
```

PIN/Signal	52-Lead PLCC	40-Pin DIP	PIN/Signal	52-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
GND	1	20	VCC	52	40
NC	2	NC	NC	51	NC
P1.0	3	1	AD0	50	39
P1.1	4	2	AD1	49	38
P1.2	5	3	AD2	48	37
P1.3	6	4	AD3	47	36
P1.4	7	5	AD4	46	35
P1.5	8	6	AD5	45	34
P1.6	9	7	AD6	44	33
P1.7	10	8	AD7	43	32
NC	11	NC	VPP	42	31
RST	12	9	NC	41	NC
NC	13	NC	NC	40	NC
NC	14	NC	ALE	39	30
P3.0	15	10	PSEN	38	29
P3.1	16	11	AD15	37	28
P3.2	17	12	AD14	36	27
P3.3	18	13	AD13	35	26
P3.4	19	14	AD12	34	25
P3.5	20	15	AD11	33	24
P3.6	21	16	AD10	32	23
P3.7	22	17	AD9	31	22
XTAL2	23	18	AD8	30	21
XTAL1	24	19	VCC	29	40
GND	25	20	GND	28	20
GND	26	20	GND	27	20

```
*****
* SDP-7552-68 Philips/Signetics 87C552(68 PINs PLCC) *
* CONNECTION TABLE: *
*****
```

PIN/Signal	68-Lead PLCC	40-Pin DIP	PIN/Signal	68-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
P5.0	1	NC	P5.1	68	NC
VDD	2	40	P5.2	67	NC
STADC	3	NC	P5.3	66	NC
PWM0	4	NC	P5.4	65	NC
PWM1	5	NC	P5.5	64	NC
EW	6	NC	P5.6	63	NC
P4.0	7	NC	P5.7	62	NC
P4.1	8	NC	AVDD	61	NC
P4.2	9	NC	AVSS	60	NC
P4.3	10	NC	AVref+	59	NC
P4.4	11	NC	AVref-	58	NC
P4.5	12	NC	P0.0/D0	57	39
P4.6	13	NC	P0.1/D1	56	38
P4.7	14	NC	P0.2/D2	55	37
RST	15	9	P0.3/D3	54	36
P1.0	16	1	P0.4/D4	53	35

P1.1	17	2	P0.5/D5	52	34
P1.2	18	3	P0.6/D6	51	33
P1.3	19	4	P0.7/D7	50	32
P1.4	20	5	EA/VPP	49	31
P1.5	21	6	ALE/PROG	48	30
P1.6	22	7	PSEN	47	29
P1.7	23	8	P2.7	46	28
P3.0	24	10	P2.6	45	27
P3.1	25	11	P2.5	44	26
P3.2	26	12	P2.4	43	25
P3.3	27	13	P2.3	42	24
P3.4	28	14	P2.2	41	23
P3.5	29	15	P2.1	40	22
P3.6	30	16	P2.0	39	21
P3.7	31	17	NC	38	NC
NC	32	NC	VSS	37	NC
NC	33	NC	VSS	36	20
XLAT2	34	18	XLAT1	35	19

* SDP-7592-68 Philips/Signetics 87C592(68 PINs PLCC) *
* CONNECTION TABLE: *

PIN/Signal	68-Lead PLCC	40-Pin DIP	PIN/Signal	68-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
P5.0	1	NC	P5.1	68	NC
VDD	2	40	P5.2	67	NC
STADC	3	NC	P5.3	66	NC
PWM0	4	NC	P5.4	65	NC
PWM1	5	NC	P5.5	64	NC
EW	6	NC	P5.6	63	NC
P4.0	7	NC	P5.7	62	NC
P4.1	8	NC	AVDD	61	NC
P4.2	9	NC	AVSS	60	NC
P4.3	10	NC	AVref+	59	NC
P4.4	11	NC	AVref-	58	NC
P4.5	12	NC	CRX0	57	NC
P4.6	13	NC	CRX1	56	NC
P4.7	14	NC	REF	55	NC
RST	15	15	P0.0/D0	54	39
P1.0	16	7	P0.1/D1	53	38
P1.1	17	8	P0.2/D2	52	37
P1.2	18	9	P0.3/D3	51	36
P1.3	19	10	P0.4/D4	50	35
P1.4	20	11	P0.5/D5	49	34
P1.5	21	12	P0.6/D6	48	33
CVSS	22	NC	P0.7/D7	47	32
P1.6	23	13	EA/VPP	46	31
P1.7	24	14	ALE/PROG	45	30
P3.0	25	NC	PSEN	44	29
P3.1	26	NC	P2.7	43	28
P3.2	27	NC	P2.6	42	27
P3.3	28	NC	P2.5	41	26
P3.4	29	NC	P2.4	40	25
P3.5	30	NC	P2.3	39	24
P3.6	31	16	P2.2	38	23
P3.7	32	17	P2.1	37	22
XLAT2	33	2	P2.0	36	21
XLAT1	34	3	VSS	35	20

* SDP-11L6-68 Motorola MC68HC711L6(68 PINs PLCC) *
* CONNECTION TABLE: *

PIN/Signal	68-Lead PLCC	40-Pin DIP	PIN/Signal	68-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base

VSS	1	1	VSS	68	1
MODEB	2	36	AVDD	67	21
MODEA	3	37	VRH	66	NC
STRA	4	12	VRL	65	NC
E	5	38	PE7	64	NC
STRB	6	11	PE3	63	NC
EXTAL	7	39	PE6	62	NC
XTAL	8	40	PE2	61	NC
NC	9	NC	PE5	60	NC
VDD	10	21	PE1	59	NC
PC0	11	2	PE4	58	NC
PC1	12	3	PE0	57	NC
PC2	13	4	PG7	56	NC
PC3	14	5	PG6	55	NC
PC4	15	6	PG5	54	NC
PC5	16	7	PG4	53	NC
PC6	17	8	PB0	52	35
PC7	18	9	PB1	51	34
PG3	19	NC	PB2	50	33
PG2	20	NC	PB3	49	32
PG1	21	NC	PB4	48	31
PG0	22	NC	PB5	47	30
RESET	23	13	PB6	46	29
XIRQ	24	10	PB7	45	28
IRQ	25	14	VSS	44	1
PD0	26	15	NC	43	NC
VSS	27	1	PA0	42	27
PD1	28	16	PA1	41	26
PD2	29	17	PA2	40	25
PD3	30	18	PA3	39	24
PD4	31	19	PA4	38	NC
PD5	32	20	PA5	37	23
VDD	33	21	PA6	36	NC
VDD	34	21	PA7	35	22

* SDP-11F1-68 Motorola MC68HC11F1(68 PINs PLCC) *
* CONNECTION TABLE: *

PIN/Signal 68-Lead PLCC 40-Pin DIP			PIN/Signal 68-Lead PLCC 40-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
VSS	1	1	VRH	68	NC
MODEB	2	36	VRL	67	NC
MODEA	3	37	PE7	66	NC
E	4	12	PE3	65	NC
R/W	5	38	PE6	64	NC
EXTAL	6	11	PE2	63	NC
XTAL	7	39	PE5	62	NC
4XOUT	8	40	PE1	61	NC
PC0	9	14	PE4	60	NC
PC1	10	21	PE0	59	NC
PC2	11	2	PF0	58	NC
PC3	12	3	PF1	57	NC
PC4	13	4	PF2	56	NC
PC5	14	5	PF3	55	NC
PC6	15	6	PF4	54	NC
PC7	16	7	PF5	53	NC
RESET	17	8	PF6	52	35
XIRQ	18	9	PF7	51	34
IRQ	19	10	PB0	50	33
PG7	20	NC	PB1	49	32
PG6	21	NC	PB2	48	31
PG5	22	NC	PB3	47	30
PG4	23	NC	PB4	46	29
PG3	24	NC	PB5	45	28
PG2	25	NC	PB6	44	15
PG1	26	NC	PB7	43	13
PG0	27	NC	PA0	42	27
PD0	28	16	PA1	41	26

PD1	29	17	PA2	40	25
PD2	30	18	PA3	39	24
PD3	31	19	PA4	38	NC
PD4	32	20	PA5	37	23
PD5	33	22	PA6	36	NC
VDD	34	21	PA7	35	NC

* SDP-196K-68 Intel 87C196KB/KC/KD (68 PINs PLCC) *
* CONNECTION TABLE: *

PIN	PLCC68	40-Pin DIP	PIN	PLCC68	40-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	40	*	68	20
*	2	1	*	67	19
*	3	NC	*	66	18
*	4	NC	*	65	NC
*	5	NC	*	64	NC
*	6	NC	*	63	NC
*	7	NC	*	62	NC
*	8	2	*	61	NC
*	9	3	*	60	37
*	10	4	*	59	36
*	11	5	*	58	35
*	12	NC	*	57	34
*	13	40	*	56	33
*	14	20	*	55	32
*	15	6	*	54	31
*	16	9	*	53	30
*	17	7	*	52	29
*	18	8	*	51	28
*	19	NC	*	50	27
*	20	NC	*	49	26
*	21	NC	*	48	25
*	22	NC	*	47	24
*	23	NC	*	46	23
*	24	NC	*	45	22
*	25	NC	*	44	NC
*	26	NC	*	43	NC
*	27	NC	*	42	39
*	28	NC	*	41	NC
*	29	NC	*	40	NC
*	30	NC	*	39	NC
*	31	NC	*	38	NC
*	32	NC	*	37	21
*	33	NC	*	36	20
*	34	NC	*	35	NC

* SDP-196J-68 Intel 87C196KR/KQ/JR (68 PINs PLCC) *
* CONNECTION TABLE: *

PIN	PLCC 68	40-Pin DIP	PIN	PLCC 68	40-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	NC	VSS	68	20
*	2	NC	XTAL1	67	19
*	3	NC	XTAL2	66	18
*	4	NC	*	65	NC
GND	5	20	*	64	NC
VPP	6	21	*	63	NC
*	7	NC	*	62	NC
*	8	NC	*	61	NC
*	9	NC	*	60	NC
*	10	NC	*	59	NC
AD15	11	22	*	58	NC
AD14	12	23	*	57	NC

AD13	13	24	*	56	NC
AD12	14	25	*	55	NC
AD11	15	26	*	54	NC
AD10	16	27	*	53	NC
AD9	17	28	*	52	NC
AD8	18	29	*	51	NC
AD7	19	30	*	50	NC
AD6	20	31	VREF	49	40
AD5	21	32	*	48	NC
AD4	22	33	PMODE3	47	2
AD3	23	34	PMODE2	46	3
AD2	24	35	PMODE1	45	4
AD1	25	36	PMODE0	44	5
AD0	26	37	*	43	NC
RESET	27	9	*	42	NC
*	28	NC	*	41	NC
EA	29	1	*	40	NC
VSS	30	20	*	39	NC
VCC	31	40	*	38	NC
PVER	32	8	*	37	NC
PALE	33	7	AINC	36	39
PROG	34	6	*	35	NC

```
*****
* SDP-320E-68, TI TMS320E25 (68 PINs PLCC) *
* CONNECTION TABLE: *
*****
```

PIN	PLCC68	28-Pin DIP	PIN	PLCC68	28-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
MP/MC	1	NC	BIO	68	NC
D15	2	NC	HOLD	67	NC
D14	3	NC	READY	66	NC
D13	4	NC	RS	65	14
D12	5	NC	CLKR	64	NC
D11	6	NC	CLKX	63	NC
D10	7	NC	Vcc	62	NC
D9	8	NC	Vcc	61	28
D8	9	NC	IACK	60	NC
Vss	10	14	MSC	59	NC
D7	11	19	CLKOUT1	58	NC
D6	12	18	CLKOUT2	57	NC
D5	13	17	XF	56	NC
D4	14	16	HOLDA	55	NC
D3	15	15	DX	54	NC
D2	16	13	FSX	53	NC
D1	17	12	X2 CLKIN	52	14
D0	18	11	X1	51	NC
SYNC	19	NC	BR	50	NC
INT0	20	NC	STRB	49	NC
INT1	21	NC	R/W	48	NC
INT2	22	20	PS	47	NC
Vcc	23	NC	IS	46	NC
DR	24	26	DS	45	NC
FSR	25	1	Vss	44	14
A0	26	10	A15	43	NC
Vss	27	14	A14	42	22
A1	28	9	A13	41	27
A2	29	8	A12	40	2
A3	30	7	A11	39	23
A4	31	6	A10	38	21
A5	32	5	A9	37	24
A6	33	4	A8	36	25
A7	34	3	Vcc	35	28

```
*****
* SDP-C752-68 Microchip PIC16C752/756 (68 PINs PLCC) *
* CONNECTION TABLE: *
```

PIN/Signal	68-Lead PLCC	28-Pin DIP	PIN/Signal	68-Lead PLCC	28-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
NC	1	NC	VSS	68	12
VDD	2	28	RC1/AD1	67	11
RC0/AD0	3	27	RC2/AD2	66	10
RD7/AD15	4	NC	RC3/AD3	65	9
RD6/AD14	5	NC	RC4/AD4	64	8
RD5/AD13	6	NC	RC5/AD5	63	7
RD4/AD12	7	NC	RC6/AD6	62	6
RD3/AD11	8	NC	RC7/AD7	61	5
RD2/AD10	9	NC	RA0/INT	60	4
RD1/AD9	10	NC	RB0/CAP1	59	3
RD0/AD8	11	NC	RB1/CAP2	58	2
RE0/ALE	12	NC	RB3/PWM2	57	26
RE1/OE	13	NC	RB4/TCLK12	56	25
RE2/WR	14	NC	RB5/TCLK3	55	24
RE3/CAP4	15	NC	RB2/PWM1	54	23
MCLR/VPP	16	1	VSS	53	12
TEST	17	15	NC	52	NC
NC	18	NC	OSC2/CLKOUT	51	14
VSS	19	12	OSC1/CLKIN	50	13
VDD	20	28	VDD	49	28
RF7/AN11	21	NC	RB7/SD0	48	22
RF6/AN10	22	NC	RB6/SCK	47	21
RF5/AN9	23	NC	RA3/SDI/SDA	46	20
RF4/AN8	24	NC	RA2/SS/SCL	45	19
RF3/AN7	25	NC	RA1/T0CK1	44	18
RF2/AN6	26	NC	RA4/RX1/DT1	43	17
RF1/AN5	27	NC	RA5/TX1/CK1	42	16
RF0/AN4	28	NC	RG6/RX2/DT2	41	NC
AVDD	29	NC	RG7/TX2/CK2	40	NC
AVSS	30	NC	RG5/PWM3	39	NC
RG3/AN0/VREF+	31	NC	RG4/CAP3	38	NC
RG2/AN1/VREF-	32	NC	VDD	37	28
RG1/AN2	33	NC	VSS	36	12
RG0/AN3	34	NC	NC	35	NC

* SDP-C923-68 Microchip PIC16C923/924 (68 PINs PLCC) *

* CONNECTION TABLE: *

PIN	PLCC 68	28-Pin DIP	PIN	PLCC 68	28-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	NC	*	68	NC
*	2	1	*	67	NC
*	3	NC	*	66	28
*	4	NC	*	65	27
*	5	NC	*	64	20
*	6	NC	*	63	NC
*	7	8	*	62	NC
*	8	NC	*	61	NC
*	9	NC	*	60	NC
*	10	NC	*	59	NC
*	11	NC	*	58	NC
*	12	NC	*	57	NC
*	13	NC	*	56	NC
*	14	NC	*	55	NC
*	15	NC	*	54	NC
*	16	NC	*	53	NC
*	17	NC	*	52	NC
*	18	NC	*	51	NC
*	19	NC	*	50	NC
*	20	NC	*	49	NC
*	21	NC	*	48	NC
*	22	20	*	47	NC
*	23	8	*	46	NC
*	24	NC	*	45	NC

*	25	NC	*	44	NC
*	26	NC	*	43	NC
*	27	NC	*	42	NC
*	28	NC	*	41	NC
*	29	NC	*	40	NC
*	30	NC	*	39	NC
*	31	NC	*	38	NC
*	32	NC	*	37	NC
*	33	NC	*	36	NC
*	34	NC	*	35	NC

* SDP-11K1-84 Motorola MC68HC11K1/K4(84 PINS PLCC) *

* CONNECTION TABLE: *

PIN/Signal	84-Lead PLCC	40-Pin DIP	PIN/Signal	84-Lead PLCC	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
PA0	1	27	PA1	84	26
VDD	2	21	PA2	83	25
VSS	3	1	PA3	82	24
PB7	4	28	PA4	81	NC
PB6	5	29	PA5	80	NC
PB5	6	30	PA6	79	NC
PB4	7	31	PA7	78	NC
PB3	8	32	PD5	77	NC
PB2	9	33	PD4	76	NC
PB1	10	34	PD3	75	NC
PB0	11	35	PD2	74	NC
PH0	12	NC	PD1	73	22
PH1	13	NC	PD0	72	23
PH2	14	NC	MODA	71	37
PH3	15	NC	MODB	70	36
PH4	16	NC	RESET	69	13
PH5	17	NC	XTAL	68	40
PH6	18	NC	EXTAL	67	39
PH7	19	NC	XOUT	66	NC
TEST16	20	NC	E	65	38
XIRQ	21	10	VDD	64	21
TEST15	22	NC	VSS	63	1
VDD	23	21	PC7	62	11
VSS	24	1	PC6	61	12
TEST14	25	NC	PC5	60	20
PG7	26	NC	PC4	59	19
PG6	27	NC	PC3	58	18
PG5	28	NC	PC2	57	17
PG4	29	NC	PC1	56	16
PG3	30	NC	PC0	55	15
PG2	31	NC	IRQ	54	14
PG1	32	NC	PF0	53	2
PG0	33	NC	PF1	52	3
AVDD	34	21	PF2	51	4
PE7	35	NC	PF3	50	5
PE6	36	NC	PF4	49	6
PE5	37	NC	PF5	48	7
PE4	38	NC	PF6	47	8
PE3	39	NC	PF7	46	9
PE2	40	NC	AVSS	45	1
PE1	41	NC	VRH	44	NC
PE0	42	NC	VRL	43	NC

* SDP-96MH-84 Adapter Intel 87C196MH/MC (84 PINS PLCC)*

* CONNECTION TABLE: *

PIN	PLCC84	40-Pin DIP	PIN	PLCC84	40-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET

*	1	NC	*	84	NC
*	2	NC	*	83	20
*	3	NC	*	82	19
*	4	20	*	81	18
*	5	NC	*	80	NC
*	6	31	*	79	NC
*	7	NC	*	78	NC
*	8	NC	*	77	NC
*	9	NC	*	76	NC
*	10	NC	*	75	NC
*	11	NC	*	74	NC
*	12	1	*	73	29
*	13	2	*	72	NC
*	14	40	*	71	NC
*	15	3	*	70	NC
*	16	NC	*	69	NC
*	17	4	*	68	28
*	18	5	*	67	NC
*	19	6	*	66	NC
*	20	7	*	65	27
*	21	8	*	64	26
*	22	NC	*	63	NC
*	23	NC	*	62	NC
*	24	9	*	61	NC
*	25	10	*	60	NC
*	26	11	*	59	NC
*	27	12	*	58	25
*	28	13	*	57	24
*	29	14	*	56	40
*	30	15	*	55	20
*	31	16	*	54	23
*	32	NC	*	53	22
*	33	17	*	52	NC
*	34	NC	*	51	NC
*	35	NC	*	50	NC
*	36	21	*	49	NC
*	37	20	*	48	NC
*	38	NC	*	47	NC
*	39	40	*	46	NC
*	40	NC	*	45	NC
*	41	NC	*	44	NC
*	42	NC	*	43	20

* SDP-705X-64Q Motorola MC68HC705X32 (64 PINs QFP) *
* CONNECTION TABLE: *

PIN/Signal	QFP64	40-Pin	DIP	PIN/Signal	QFP64	40-Pin	DIP
Names	SOCKET	Base	Names	SOCKET	Base	Names	Base
PC1	1	NC	PC2	64	NC		
PC0	2	NC	PC3	63	NC		
VDDH	3	NC	PC4	62	NC		
VSS1	4	20	PC5	61	3		
RX0	5	NC	PC6	60	2		
RX1	6	NC	PC7	59	1		
VDD1	7	40	VSS	58	20		
RDI	8	4	VPP1	57	NC		
SCLK	9	5	NC	56	NC		
TDO	10	6	NWOI	55	20		
TCMP2	11	7	PB0	54	39		
TCMP1	12	8	PB1	53	38		
PD7	13	9	PB2	52	NC		
PD6	14	10	PB3	51	NC		
PD5	15	11	PB4	50	NC		
NC	16	NC	PB5	49	NC		
VRL	17	13	PB6	48	NC		
VRH	18	14	PB7	47	NC		
PD4	19	15	TX1	46	NC		
VDD	20	40	TX0	45	NC		

PD3	21	16	PA0	44	37
PD2	22	17	PA1	43	36
PD1	23	18	PA2	42	35
PD0	24	19	PA3	41	34
NC	25	NC	PA4	40	33
CANE	26	20	PA5	39	32
VPP6	27	21	PA6	38	31
OSC1	28	22	PA7	37	30
OSC2	29	23	MDS	36	20
/RESET	30	24	TCAP2	35	29
/IRQ	31	25	TCAP1	34	40
PLMA	32	26	PLMB	33	27

* SDP-C923-64TQ Microchip PIC16C923/924 (64 PINs TQFP)*
* CONNECTION TABLE: *

PIN	PLCC64	40-Pin DIP	PIN	PLCC64	40-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
*	1	1	*	64	13
*	2	2	*	63	11
*	3	NC	VSS	62	9
*	4	NC	*	61	7
*	5	NC	*	60	6
*	6	NC	*	59	5
*	7	NC	*	58	4
*	8	NC	VPP/MCLR	57	3
*	9	NC	*	56	40
*	10	39	*	55	20
*	11	35	RB7	54	28
VDD	12	8	RB6	53	27
VSS	13	10	VDD	52	26
*	14	NC	*	51	25
*	15	NC	*	50	24
*	16	NC	*	49	23
*	17	NC	*	48	22
*	18	NC	*	47	21
*	19	NC	*	46	33
*	20	NC	*	45	32
*	21	37	*	44	36
*	22	38	*	43	16
*	23	34	*	42	19
*	24	14	*	41	18
*	25	NC	*	40	NC
*	26	NC	*	39	NC
*	27	NC	*	38	NC
*	28	NC	*	37	31
*	29	NC	*	36	30
*	30	NC	*	35	29
*	31	NC	*	34	17
*	32	NC	*	33	15

* SDP-C508-64Q Siemens SAB-C508-4E (64 PINs QFP) *
* CONNECTION TABLE: *

PIN/Signal	64-Lead QFP	40-Pin DIP	PIN/Signal	68-Lead QFP	40-Pin DIP
Names	SOCKET	ZIF SOCKET	Names	SOCKET	ZIF SOCKET
RESET	1	1	D7	64	13
EA/Vpp	2	2	D6	63	11
NC	3	NC	D5	62	9
NC	4	NC	D4	61	7
NC	5	NC	D3	60	6
NC	6	NC	D2	59	5
NC	7	NC	D1	58	4
NC	8	NC	D0	57	3

NC	9	NC	VDD	56	40
NC	10	39	VSS	55	20
NC	11	35	A0/A8	54	28
NC	12	8	A1/A9	53	27
NC	13	10	A2/A10	52	26
NC	14	NC	A3/A11	51	25
NC	15	NC	A4/A12	50	24
NC	16	NC	A5/A13	49	23
NC	17	NC	A6/A14	48	22
NC	18	NC	A7	47	21
NC	19	NC	/PSEN	46	33
NC	20	13	/PROG	45	32
NC	21	37	VDD	44	36
NC	22	38	VSS	43	16
VDD	23	34	XTAL1	42	19
VSS	24	14	XTAL2	41	18
NC	25	NC	NC	40	NC
NC	26	NC	NC	39	NC
NC	27	NC	NC	38	NC
NC	28	NC	PALE	37	31
NC	29	NC	/PRD	36	30
NC	30	NC	/PSEL	35	29
NC	31	NC	PMSEL1	34	17
NC	32	NC	PMSEL0	33	15

* SDP-C515-80Q SIEMENS C515C/C505A (80 PINS MQFP) *
* CONNECTION TABLE: *

PIN/Signal 80-Lead PLCC			48-Pin DIP			PIN/Signal 80-Lead PLCC			48-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base	Names	SOCKET	Base	Names	SOCKET	Base
NC	1	NC	VSS /NC	80	47	NC	1	NC	VSS /NC	80	47
NC	2	NC	NC /VCC	79	46	NC	2	NC	NC /VCC	79	46
NC	3	NC	VCC /D0	78	44	NC	3	NC	VCC /D0	78	44
NC	4	NC	NC /D1	77	16	NC	4	NC	NC /D1	77	16
NC	5	NC	NC /D2	76	15	NC	5	NC	NC /D2	76	15
NC	6	NC	NC /D3	75	14	NC	6	NC	NC /D3	75	14
NC	7	NC	NC /D4	74	13	NC	7	NC	NC /D4	74	13
NC	8	NC	NC /D5	73	12	NC	8	NC	NC /D5	73	12
NC	9	NC	NC /D6	72	11	NC	9	NC	NC /D6	72	11
NC	10	NC	NC /D7	71	10	NC	10	NC	NC /D7	71	10
RESET /NC	11	45	NC /A0/A8	70	9	RESET /NC	11	45	NC /A0/A8	70	9
NC	12	NC	D7 /A1/A9	69	8	NC	12	NC	D7 /A1/A9	69	8
NC	13	NC	D6 /A2/A10	68	7	NC	13	NC	D6 /A2/A10	68	7
NC	14	NC	D5 /A3/A11	67	6	NC	14	NC	D5 /A3/A11	67	6
NC	15	NC	D4 /A4/A12	66	5	NC	15	NC	D4 /A4/A12	66	5
NC	16	NC	D3 /A5/A13	65	4	NC	16	NC	D3 /A5/A13	65	4
NC	17	NC	D2 /A6/A14	64	3	NC	17	NC	D2 /A6/A14	64	3
NC	18	NC	D1 /A7/A15	63	2	NC	18	NC	D1 /A7/A15	63	2
NC	19	NC	D0 /NC	62	1	NC	19	NC	D0 /NC	62	1
NC	20	NC	VSS /NC	61	37	NC	20	NC	VSS /NC	61	37
NC	21	NC	VCC /VCC	60	40	NC	21	NC	VCC /VCC	60	40
NC	22	NC	EA/VPP/VSS	59	35	NC	22	NC	EA/VPP/VSS	59	35
VSS	23	43	PROG /XTAL1	58	19	VSS	23	43	PROG /XTAL1	58	19
VCC	24	34	PSEN /XTAL2	57	18	VCC	24	34	PSEN /XTAL2	57	18
PMSEL0/NC	25	21	NC /VPP	56	33	PMSEL0/NC	25	21	NC /VPP	56	33
PMSEL1/NC	26	20	A7/A15/PROG	55	32	PMSEL1/NC	26	20	A7/A15/PROG	55	32
PSEL /NC	27	42	A6/A14/PSEN	54	31	PSEL /NC	27	42	A6/A14/PSEN	54	31
PRD /NC	28	24	A5/A13/RESET	53	30	PRD /NC	28	24	A5/A13/RESET	53	30
PALE /NC	29	17	A4/A12/PMSEL0	52	29	PALE /NC	29	17	A4/A12/PMSEL0	52	29
NC	30	NC	A3/A11/PMSEL1	51	28	NC	30	NC	A3/A11/PMSEL1	51	28
NC	31	NC	A2/A10/PSEL	50	27	NC	31	NC	A2/A10/PSEL	50	27
NC	32	NC	A1/A9 /PRD	49	26	NC	32	NC	A1/A9 /PRD	49	26
NC	33	NC	A0/A8 /PALE	48	25	NC	33	NC	A0/A8 /PALE	48	25
NC	34	NC	XTAL1 /NC	47	22	NC	34	NC	XTAL1 /NC	47	22
NC	35	NC	XTAL2 /NC	46	23	NC	35	NC	XTAL2 /NC	46	23
NC	36	NC	VSS /NC	45	41	NC	36	NC	VSS /NC	45	41
NC	37	NC	VSS /NC	44	39	NC	37	NC	VSS /NC	44	39
NC	38	NC	VCC /NC	43	38	NC	38	NC	VCC /NC	43	38

NC	39	NC	VCC	/NC	42	36
NC	40	NC	NC		41	NC

* SDP-908AZ-64Q Motorola MC68HC908AZ60 (64 PINs QFP) *

* CONNECTION TABLE: *

PIN/Signal	QFP64	40-Pin DIP	PIN/Signal	QFP64	40-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
PTC4	1	NC	PTC5	64	NC
IRQ	2	7	PTC3	63	6
RST	3	8	PTC2	62	5
PTF0	4	NC	PTC1	61	4
PTF1	5	NC	PTC0	60	3
PTF2	6	NC	OSC1	59	2
PTF3	7	NC	OSC2	58	1
PTF4	8	NC	CGMXFC	57	20
CANRX	9	NC	VSSA	56	20
CANTX	10	NC	VDDA	55	34
PTF5	11	NC	VREFH	54	NC
PTF6	12	NC	PTD7	53	NC
PTE0	13	NC	PTD6	52	NC
PTE1	14	NC	PTD5	51	33
PTE2	15	NC	PTD4	50	32
PTE3	16	NC	PTH1	49	NC
PTE4	17	NC	PTH0	48	NC
PTE5	18	NC	PTD3	47	31
PTE6	19	NC	PTD2	46	30
PTE7	20	NC	AVSS	45	NC
VSS	21	20	VDDAREF	44	34
VDD	22	34	PTD1	43	29
PTG0	23	NC	PTD0	42	NC
PTG1	24	NC	PTB7	41	28
PTG2	25	NC	PTB6	40	27
PTA0	26	9	PTB5	39	26
PTA1	27	10	PTB4	38	25
PTA2	28	11	PTB3	37	24
PTA3	29	12	PTB2	36	23
PTA4	30	13	PTB1	35	22
PTA5	31	14	PTB0	34	21
PTA6	32	15	PTA7	33	16

* SDP-1024-68 Lattice pLSI/ispLSI 1024 (68 PINs PLCC) *

* CONNECTION TABLE: *

[Note]:

- 1.A 1f tantalum capacitor should be put between VCC and GND.
- 2.A resistor 1.5k should be put between IN4 and IN5.

PIN/Signal	68-Lead PLCC	28-Pin DIP	PIN/Signal	68-Lead PLCC	28-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
GND	1	14	VCC	68	28
IN4	2	5	I/O35	67	18
I/O36	3	NC	I/O34	66	NC
I/O37	4	NC	I/O33	65	NC
I/O38	5	7	I/O32	64	NC
I/O39	6	NC	I/O31	63	NC
I/O40	7	NC	I/O30	62	NC
I/O41	8	NC	I/O29	61	NC
I/O42	9	8	I/O28	60	NC
I/O43	10	9	I/O27	59	NC
I/O44	11	10	I/O26	58	NC
I/O45	12	11	I/O25	57	NC
I/O46	13	12	I/O24	56	NC
I/O47	14	13	IN3/MODE	55	3

IN5	15	6	Y1	54	21
Y0	16	20	VCC	53	28
VCC	17	28	GND	52	14
GND	18	14	Y2	51	22
ispEN/NC	19	4	Y3	50	23
RESET	20	19	IN2/SCLK	49	1
SDI/IN0	21	2	I/O23	48	NC
I/O0	22	NC	I/O22	47	27
I/O1	23	NC	I/O21	46	26
I/O2	24	16	I/O20	45	25
I/O3	25	NC	I/O19	44	24
I/O4	26	NC	I/O18	43	NC
I/O5	27	NC	I/O17	42	NC
I/O6	28	NC	I/O16	41	NC
I/O7	29	NC	I/O15	40	NC
I/O8	30	NC	I/O14	39	NC
I/O9	31	NC	I/O13	38	NC
I/O10	32	NC	I/O12	37	NC
I/O11	33	17	VCC	36	28
SDO/IN1	34	15	GND	35	14

```
*****
* SDP-1032-84 Lattice pLSI/ispLSI 1032 (84 PINs PLCC) *
* CONNECTION TABLE: *
*****
```

[Note]:

- 1.A 1f tantalum capacitor should be put between VCC and GND.
- 2.A resistor 1.5k should be put between IN6 and IN7.

PIN/Signal 84-Lead PLCC 28-Pin DIP PIN/Signal 84-Lead PLCC 28-Pin DIP

Names	SOCKET	Base	Names	SOCKET	Base
GND	1	14	IN5	84	NC
IN6	2	5	I/O47	83	18
I/O48	3	NC	I/O46	82	NC
I/O49	4	NC	I/O45	81	NC
I/O50	5	7	I/O44	80	NC
I/O51	6	NC	I/O43	79	NC
I/O52	7	NC	I/O42	78	NC
I/O53	8	NC	I/O41	77	NC
I/O54	9	NC	I/O40	76	NC
I/O55	10	NC	I/O39	75	NC
I/O56	11	NC	I/O38	74	NC
I/O57	12	8	I/O37	73	NC
I/O58	13	9	I/O36	72	NC
I/O59	14	10	I/O35	71	NC
I/O60	15	11	I/O34	70	NC
I/O61	16	12	I/O33	69	NC
I/O62	17	13	I/O32	68	NC
I/O63	18	NC	IN4	67	NC
IN7	19	6	Y1	66	NC
Y0	20	NC	VCC	65	28
VCC	21	28	GND	64	14
GND	22	14	Y2	63	NC
ispEN/NC	23	4	Y3	62	NC
RESET	24	NC	IN3/SCLK	61	1
SDI/IN0	25	2	I/O31	60	NC
I/O0	26	NC	I/O30	59	NC
I/O1	27	NC	I/O29	58	27
I/O2	28	16	I/O28	57	26
I/O3	29	NC	I/O27	56	25
I/O4	30	NC	I/O26	55	24
I/O5	31	NC	I/O25	54	23
I/O6	32	NC	I/O24	53	22
I/O7	33	NC	I/O23	52	21
I/O8	34	NC	I/O22	51	20
I/O9	35	NC	I/O21	50	19
I/O10	36	NC	I/O20	49	NC
I/O11	37	NC	I/O19	48	NC
I/O12	38	NC	I/O18	47	NC

I/O13	39	NC	I/O17	46	NC
I/O14	40	NC	I/O16	45	NC
I/O15	41	17	SDO/IN2	44	15
MODE/IN1	42	3	GND	43	14

* SDP-C374-84 Cypress CY7C374 (84 PINs PLCC) *
* CONNECTION TABLE: *

PIN Names	PLCC84 SOCKET	40-Pin DIP ZIF SOCKET	PIN Names	PLCC84 SOCKET	40-Pin DIP ZIF SOCKET
GND	1	20	VCC	84	40
VCC	2	40	I5	83	NC
I/O0	3	1	I/O63	82	NC
I/O1	4	NC	I/O62	81	26
I/O2	5	2	I/O61	80	NC
I/O3	6	NC	I/O60	79	25
I/O4	7	3	I/O59	78	NC
I/O5	8	NC	I/O58	77	24
I/O6	9	NC	I/O57	76	NC
I/O7	10	NC	I/O56	75	23
GND	11	20	GND	74	20
I/O8	12	4	I/O55	73	NC
I/O9	13	NC	I/O54	72	NC
I/O10	14	5	I/O53	71	NC
I/O11	15	NC	I/O52	70	NC
I/O12	16	6	I/O51	69	NC
I/O13	17	NC	I/O50	68	NC
I/O14	18	7	I/O49	67	NC
I/O15	19	8	I/O48	66	NC
CLK0/I0	20	38	CLK3/I4	65	NC
VCC	21	40	GND	64	20
GND	22	20	VCC	63	40
CLK1/I1	23	10	CLK2/I3	62	22
I/O16	24	11	I/O47	61	NC
I/O17	25	NC	I/O46	60	NC
I/O18	26	12	I/O45	59	NC
I/O19	27	NC	I/O44	58	NC
I/O20	28	NC	I/O43	57	NC
I/O21	29	NC	I/O42	56	NC
I/O22	30	NC	I/O41	55	NC
I/O23	31	NC	I/O40	54	NC
GND	32	20	GND	53	20
I/O24	33	13	I/O39	52	NC
I/O25	34	NC	I/O38	51	21
I/O26	35	14	I/O37	50	NC
I/O27	36	NC	I/O36	49	19
I/O28	37	15	I/O35	48	NC
I/O29	38	NC	I/O34	47	18
I/O30	39	16	I/O33	46	NC
I/O31	40	NC	I/O32	45	17
I2	41	NC	VCC	44	40
VCC	42	40	GND	43	20

* SDP-3224-100Q 100 PINs QFP Adapter *
* CONNECTION TABLE: *

PIN/Signal Names	100-Lead QFP SOCKET	102-Pin Connector	48-Pin DIP Base	PIN/Signal Names	100-Lead QFP SOCKET	102-Pin Connector	48-Pin DIP Base
VSS	1	95	24	DIN0	100	82	34
DOUT7	2	88	35	NC	99	87	NC
VDD	3	96	46	NC	98	81	NC
DIN1	4	89	36	NC	97	86	NC
DOUT6	5	97	42	NC	96	80	NC
DIN2	6	90	37	NC	95	85	NC

DOUT5	7	98	43	NC	94	79	NC
DIN3	8	91	38	NC	93	84	NC
DOUT4	9	99	44	NC	92	78	NC
DIN4	10	92	39	NC	91	83	NC
DOUT3	11	100	45	NC	90	77	NC
DIN5	12	93	40	NC	89	72	NC
DOUT2	13	101	47	NC	88	76	NC
DIN6	14	94	41	NC	87	71	NC
DOUT1	15	102	48	NC	86	75	NC
DIN7	16	8	6	NC	85	70	NC
DOUT0	17	1	1	NC	84	74	NC
YADR0	18	9	7	VDD	83	69	46
YADR1	19	2	2	NC	82	73	NC
OE	20	10	8	DAC_R	81	68	R1
YADR2	21	3	3	(VSS)	80	67	24
IFREN	22	11	9	LO_BAT_REF	79	60	R2,R3
YADR3	23	4	4	VSS	78	66	24
ERASE	24	12	10	(VSS)	77	59	24
YADR4	25	5	5	(VSS)	76	65	24
XADR0	26	13	11	(VSS)	75	58	24
VSS	27	6	24	(VSS)	74	64	24
MAS1	28	14	12	(VSS)	73	57	24
VDD	29	7	46	(VSS)	72	63	24
YADR5	30	15	13	(VSS)	71	56	24
PROG	31	16	14	(VSS)	70	62	24
XADR1	32	21	18	XE	69	55	32
NVSTR	33	17	15	YE	68	61	33
XADR2	34	22	19	SE	67	53	31
NC	35	18	NC	(VSS)	66	43	24
XADR3	36	23	20	(VSS)	65	52	24
XADR8	37	19	16	(VSS)	64	42	24
XADR4	38	24	21	(VSS)	63	51	24
XADR7	39	20	17	(VSS)	62	41	24
XADR5	40	25	22	(VSS)	61	50	24
XADR6	41	31	23	(VSS)	60	40	24
(VSS)	42	26	24	(VDD)	59	48	46
DATA+	43	32	R4	NC	58	39	NC
DATA-	44	27	R5	VDD	57	47	46
(VSS)	45	33	24	VSS	56	38	24
(VDD)	46	28	46	VSS	55	46	24
(VSS)	47	34	24	VDD	54	37	46
(VSS)	48	29	24	VSS	53	45	24
NC	49	35	NC	VDD	52	36	46
VSS	50	30	24	(VSS)	51	44	24

R1:120K -> VSS
R2: 56K -> VDD
R3: 33K -> VSS
R4:100K -> VDD
R5:100K -> VSS

* SDP-F400-56TS Intel E28F200/400(56 PINs TSOP) *
* CONNECTION TABLE: *

PIN/Signal 56-Lead TSOP 48-Pin DIP			PIN/Signal 56-Lead PLCC 48-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
NC	15	NC	RP	14	48
NC	16	NC	WE	13	47
VPP	17	2	NC	12	46
WP	18	3	NC	11	45
NC	19	4	A8	10	44
A17	20	5	A9	9	43
A7	21	6	A10	8	42
A6	22	7	A11	7	41
A5	23	8	A12	6	40
A4	24	9	A13	5	39
A3	25	10	A14	4	38
A2	26	11	A15	3	37

A1	27	12	NC	2	NC
NC	28	NC	NC	1	NC
NC	29	NC	NC	56	NC
NC	30	NC	A16	55	36
A0	31	13	BYTE	54	35
CE	32	14	GND	53	34
GND	33	15	DQ15/A-1	52	33
OE	34	16	DQ7	51	32
DQ0	35	17	DQ14	50	NC
DQ8	36	NC	DQ6	49	30
DQ1	37	19	DQ13	48	NC
DQ9	38	NC	DQ5	47	28
DQ2	39	21	DQ12	46	NC
DQ10	40	NC	DQ4	45	27
DQ3	41	23	VCC	44	26
DQ11	42	NC	VCC	43	25

* SDP-F160-56SS Intel 28F800F3 28F160F3 (56 PINs SSOP) *
* CONNECTION TABLE: *

PIN/Signal 56-Lead SSOP 48-Pin DIP			PIN/Signal 56-Lead SSOP 48-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
VCC	1	46	WE#	56	1
CLK	2	15	RST#	55	2
ADV#	3	4	VPP	54	48
GND	4	15	WP#	53	3
NC(A20)	5	5	A19	52	47
A15	6	6	A1	51	45
A14	7	7	A2	50	44
A13	8	8	A3	49	43
A12	9	9	A4	48	42
A11	10	10	A5	47	41
A10	11	11	A6	46	40
A9	12	12	A7	45	39
A8	13	13	A17	44	38
NC(A21)	14	14	A18	43	37
GND	15	15	DQ9	42	36
DQ6	16	16	DQ1	41	35
DQ14	17	17	DQ8	40	34
DQ7	18	18	DQ0	39	33
DQ15	19	19	OE#	38	32
GND	20	15	GND	37	15
VCCQ	21	46	CE#	36	31
A16	22	20	A0	35	30
WAIT#	23	NC	NC(A22)	34	29
DQ13	24	21	VCCQ	33	46
DQ5	25	22	DQ2	32	28
DQ12	26	23	DQ10	31	27
DQ4	27	24	DQ3	30	26
VCC	28	46	DQ11	29	25

* SDP-F320-56SS Intel 28F016SA/SV 28F160S3 28F320S3 (56 PINs SSOP) *
* CONNECTION TABLE: *

PIN/Signal 56-Lead SSOP 48-Pin DIP			PIN/Signal 56-Lead SSOP 48-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
CE0	1	1	VPP	56	48
A12	2	2	RP	55	47
A13	3	3	A11	54	46
A14	4	4	A10	53	45
A15	5	5	A9	52	44
3/5,A22	6	6	A1	51	43
CE	7	7	A2	50	42
A21,NC	8	8	A3	49	41

A20	9	9	A4	48	40
A19	10	10	A5	47	39
A18	11	11	A6	46	38
A17	12	12	A7	45	37
A16	13	13	GND	44	15
VCC	14	34	A8	43	36
GND	15	15	VCC	42	34
DQ6	16	14	DQ9	41	NC
DQ14	17	NC	DQ1	40	35
DQ7	18	16	DQ8	39	NC
DQ15	19	NC	DQ0	38	33
RY/BY,STS	20	17	A0	37	32
OE	21	18	BYTE	36	31
WE	22	19	NC,ADV	35	30
WP,NC	23	20	CE2,NC,CLK	34	29
DQ13	24	NC	DQ2	33	28
DQ5	25	21	DQ10	32	NC
DQ12	26	NC	DQ3	31	27
DQ4	27	22	DQ11	30	NC
VCC,VCCQ	28	34	GND	29	15

```
*****
* SDP-F256-80F   Intel RD28F256SJ3AM(80 Balls uBGA)          *
* CONNECTION TABLE:                                         *
*****
```

PIN/Signal 80-ball uBGA 48-Pin DIP			PIN/Signal 80-ball uBGA 48-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
A19	C3	1	A21	C7	48
A18	C2	2	A11	C8	47
A4	C1	3	A22	D7	46
A5	D1	4	A12	D8	45
VPEN	E4	5	A9	E7	44
A17	E2	6	A13	E8	43
A3	E1	7	A20	F6	42
A7	F2	8	A10	F7	41
A2	F1	9	A15	F8	40
RP#	G4	10	WE#	G5	39
A6	G2	11	A8	G6	38
A1	G1	12	A14	G7	37
A0	H1	13	A16	G8	36
D8	H2	14	NC	--	35
D2	H3	15	CE#2	H8	34
D10	H4	16	D13	H6	33
D0	J2	17	D5	H5	32
D1	J3	18	D7	J7	31
D3	J4	19	D14	J6	30
OE#	K2,J8	20	D12	J5	29
D9	K3	21	D15	K7	28
D11	K4	22	D6	K6	27
CE#1	L1	23	D4	K5	26
VCC	C5,C6,K8,L2	24	GND	C4,D4,M2,M5	25
	L6,L7,M3,M4			M6,M7	

```
*****
* SDP-i320-48U   Intel 28F320B3/C3                          *
* SDP-S160-48U   Sharp 28F160BJE                            *
* CONNECTION TABLE:                                         *
*****
```

PIN/Signal	48BGA	48-Pin DIP	PIN/Signal	48BGA	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
VPP	A4	1	RP	B4	48
WP	A5	2	WE	B3	47
A19	A6	3	A20	C5	46
A18	B5	4	NC	C4	45
A17	B6	5	A8	A3	44
A7	A7	6	A9	C3	43

A6	C6	7	A10	B2	42
A5	B7	8	A11	A2	41
A4	A8	9	A12	C2	40
A3	C7	10	A13	A1	39
A2	B8	11	A14	B1	38
A1	C8	12	A15	C1	37
A0	D8	13	A16	D1	36
CE	D7	14	VDDQ	E1	35
VSS	E8	15	VSS	F1	34
OE	F8	16	D15	E2	33
D0	E7	17	D7	F2	32
D8	D6	18	D14	D2	31
D1	F7	19	D6	E3	30
D9	E6	20	D13	F3	29
D2	D5	21	D5	D3	28
D10	F6	22	D12	E4	27
D3	E5	23	D4	F4	26
D11	D4	24	VDD	F5	25

* SDP-i320-48VF Intel 28F320/160 *
* CONNECTION TABLE: *

PIN/Signal Names	48BGA SOCKET	48-Pin DIP Base	PIN/Signal Names	48BGA SOCKET	48-Pin DIP Base
VPP	A4	1	RP	B4	48
WP	A5	2	WE	B3	47
A19	A6	3	A20	C5	46
A18	B5	4	NC	C4	45
A17	B6	5	A8	A3	44
A7	A7	6	A9	C3	43
A6	C6	7	A10	B2	42
A5	B7	8	A11	A2	41
A4	A8	9	A12	C2	40
A3	C7	10	A13	A1	39
A2	B8	11	A14	B1	38
A1	C8	12	A15	C1	37
A0	D8	13	A16	D1	36
CE	D7	14	VDDQ	E1	35
VSS	E8	15	VSS	F1	34
OE	F8	16	D15	E2	33
D0	E7	17	D7	F2	32
D8	D6	18	D14	D2	31
D1	F7	19	D6	E3	30
D9	E6	20	D13	F3	29
D2	D5	21	D5	D3	28
D10	F6	22	D12	E4	27
D3	E5	23	D4	F4	26
D11	D4	24	VDD	F5	25

* SDP-EBGA-001 (EASY BGA) Intel 28F800/160/320F3/C3 *
* CONNECTION TABLE: *

PIN/Signal Names	64EBGA SOCKET	48-Pin DIP Base	PIN/Signal Names	64EBGA SOCKET	48-Pin DIP Base
VPP	A4	1	RP	B4	48
WP	C3	2	WE	C4	47
A19	B3	3	A20	B6	46
A18	A3	4	A21	C6	45
A17	B2	5	A8	D7	44
A7	C2	6	A9	D8	43
A6	A2	7	A10	A7	42
A5	D2	8	A11	B7	41
A4	D1	9	A12	C7	40
A3	C1	10	A13	C8	39

A2	B1	11	A14	B8	38
A1	A1	12	A15	A8	37
A0	G1	13	A16	G8	36
CE	F1	14	VCCQ	H3,H7	35
VSS	G2,G7	15	VSS	H5,A6	34
OE	H2	16	D15	G6	33
D0	F2	17	D7	H6	32
D8	E1	18	D14	F6	31
D1	E2	19	D6	E6	30
D9	E3	20	D13	G5	29
D2	G3	21	D5	F5	28
D10	F3	22	D12	E5	27
D3	E4	23	D4	G4	26
D11	F4	24	VDD	H4,A5	25

* SDP-EBGA-002 (EASY BGA) Intel 28F320/640/128J3A *
* CONNECTION TABLE: *

PIN/Signal	64EBGA	48-Pin DIP	PIN/Signal	64EBGA	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
VPP	A4	1	CE0	B4	48
RP	D4	7	A12	C4	47
A11	D3	3	A13	A5	46
A10	C3	4	A14	B5	45
A9	B3	5	A15	C5	44
A8	A3	6	VCC	A6	25
GND	B2	14	A16	D7	42
A7	C2	8	A17	D8	41
A6	A2	9	A18	A7	40
A5	D2	10	A19	B7	39
A4	D1	11	A20	C7	38
A3	C1	12	NC		37
A2	B1	13	CE1	B8	36
A1	A1	2	A22	A8	35
NC		19	A24	H8	34
NC		22	WE	G8	28
BYTE	F1	15	OE	F8	32
A0	G2	16	STS	E8	31
DQ0	F2	17	DQ15	E7	NC
DQ8	E1	NC	DQ7	H7	30
DQ1	E2	18	DQ14	G7	NC
DQ9	E3	NC	DQ6	G6	29
VCC	A6	25	GND	H6	33
DQ2	G3	20	DQ13	H5	NC
DQ10	F3	NC	DQ5	G5	27
DQ3	E4	21	DQ12	F5	NC
DQ11	F4	NC	DQ4	E5	26
GND	H4	24	VCC	H3	25

* SDP-EBGA-003 (EASY BGA) Intel 28F320/640/128J3C *
* CONNECTION TABLE: *

PIN/Signal	64EBGA	48-Pin DIP	PIN/Signal	64EBGA	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
A22	A8	36	A24	H8	35
CE1#	B8	24	WE#	G8	34
A21	C8	37	OE#	F8	33
A17	D8	41	STS	E8	--
A18	A7	40	D7	H7	31
A19	B7	39	D14	G7	30
A20	C7	38	RFU	F7	--
A16	D7	42	D15	E7	32
VCC	A6	44	VSS	H6	24
RFU	B6	--	D6	G6	29

RFU	C6	--	RFU	F6	--
RFU	D6	--	RFU	E6	--
A13	A5	46	D13	H5	28
A14	B5	45	D5	G5	27
A15	C5	43	D12	F5	26
RFU	D6	--	D4	E5	25
VPEN	A4	1	VSS	H4	24
CE0#	B4	48	VCCQ	G4	44
A12	C4	47	D11	F4	23
RP#	D4	5	D3	E4	22
A8	A3	6	VCC	H3	44
A9	B3	4	D2	G3	20
A10	C3	3	D10	F3	21
A11	D3	2	D9	E3	19
A6	A2	8	RFU	H2	--
VSS	B2	24	A0	G2	--
A7	C2	7	D0	F2	16
A5	D2	9	D1	E2	18
A1	A1	13	CE2#	H1	14
A2	B1	12	A23	G1	15
A3	C1	11	BYTE#	F1	44
A4	D1	10	D8	E1	17

* SDP-3204-64F (EASY BGA) Intel RD28F3204/1604 *
* CONNECTION TABLE: *

PIN/Signal	68BGA	48-Pin DIP	PIN/Signal	68BGA	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
NC	A1	NC	NC	H12	NC
NC	A2	NC	NC	H11	NC
A20	A3	46	NC	H10	NC
A11	A4	41	F=OE	H9	16
A15	A5	37	F-GND	H8	15
A14	A6	38	F-CE	H7	14
A13	A7	39	A0	H6	13
A12	A8	40	A4	H5	9
F-GND	A9	15	A5	H4	8
F-VCCQ	A10	25	NC	H3	NC
NC	A11	NC	NC	H2	NC
NC	A12	NC	NC	H1	NC
A16	B3	36	S-CS1	G10	35
A8	B4	44	A1	G9	12
A10	B5	42	A2	G8	11
A9	B6	43	A3	G7	10
D15	B7	33	A6	G6	7
S-WE	B8	35	A7	G5	6
D14	B9	31	A17	G4	5
D7	B10	32	A18	G3	4
F-WE	C3	47	D1	F10	19
NC	C4	NC	D0	F9	17
A21	C5	45	D8	F8	18
NC	C6	NC	D9	F7	20
D13	C7	29	NC	F6	NC
D6	C8	30	S-OE	F5	35
D4	C9	26	S-UB	F4	35
D5	C10	28	S-LB	F3	35
S-GND	D3	15	D3	E10	23
F-RP	D4	48	D2	E9	21
A22	D5	34	D10	E8	22
NC	D6	NC	NC	E7	NC
D12	D7	27	D11	E6	24
S-CS2	D8	15	A19	E5	3
S-VCC	D9	25	VPP	E4	1
F-VCC	D10	25	F-WP	E3	2

```

* SDP-3208-64F (EASY BGA) Intel RD28F3208 *
* CONNECTION TABLE: *
*****

```

PIN/Signal Names	68BGA SOCKET	48-Pin DIP Base	PIN/Signal Names	68BGA SOCKET	48-Pin DIP Base
NC	A1	NC	NC	H12	NC
NC	A2	NC	NC	H11	NC
A20	A3	46	NC	H10	NC
A11	A4	41	F=OE	H9	16
A15	A5	37	F-GND	H8	15
A14	A6	38	F-CE	H7	14
A13	A7	39	A0	H6	13
A12	A8	40	A4	H5	9
F-GND	A9	15	A5	H4	8
F-VCCQ	A10	25	NC	H3	NC
NC	A11	NC	NC	H2	NC
NC	A12	NC	NC	H1	NC
A16	B3	36	S-CS1	G10	35
A8	B4	44	A1	G9	12
A10	B5	42	A2	G8	11
A9	B6	43	A3	G7	10
D15	B7	33	A6	G6	7
S-WE	B8	35	A7	G5	6
D14	B9	31	A17	G4	5
D7	B10	32	A18	G3	4
F-WE	C3	47	D1	F10	19
NC	C4	NC	D0	F9	17
A21	C5	45	D8	F8	18
NC	C6	NC	D9	F7	20
D13	C7	29	NC	F6	NC
D6	C8	30	S-OE	F5	35
D4	C9	26	S-UB	F4	35
D5	C10	28	S-LB	F3	35
S-GND	D3	15	D3	E10	23
F-RP	D4	48	D2	E9	21
A22	D5	34	D10	E8	22
NC	D6	NC	NC	E7	NC
D12	D7	27	D11	E6	24
S-CS2	D8	15	A19	E5	3
S-VCC	D9	25	VPP	E4	1
F-VCC	D10	25	F-WP	E3	2

```

*****
* SDP-6408-64F (EASY BGA) Intel RD28F6408 *
* CONNECTION TABLE: *
*****

```

PIN/Signal Names	68BGA SOCKET	48-Pin DIP Base	PIN/Signal Names	68BGA SOCKET	48-Pin DIP Base
NC	A1	NC	NC	H12	NC
NC	A2	NC	NC	H11	NC
A20	A3	46	NC	H10	NC
A11	A4	41	F=OE	H9	16
A15	A5	37	F-GND	H8	15
A14	A6	38	F-CE	H7	14
A13	A7	39	A0	H6	13
A12	A8	40	A4	H5	9
F-GND	A9	15	A5	H4	8
F-VCCQ	A10	25	F-VCC	H3	25
NC	A11	NC	NC	H2	NC
NC	A12	NC	NC	H1	NC
A16	B3	36	S-CS1	G10	35
A8	B4	44	A1	G9	12
A10	B5	42	A2	G8	11
A9	B6	43	A3	G7	10
D15	B7	33	A6	G6	7
S-WE	B8	35	A7	G5	6
D14	B9	31	A17	G4	5
D7	B10	32	A18	G3	4

F-WE	C3	47	D1	F10	19
NC	C4	NC	D0	F9	17
A21	C5	45	D8	F8	18
NC	C6	NC	D9	F7	20
D13	C7	29	NC	F6	NC
D6	C8	30	S-OE	F5	35
D4	C9	26	S-UB	F4	35
D5	C10	28	S-LB	F3	35
S-GND	D3	15	D3	E10	23
F-RP	D4	48	D2	E9	21
A22	D5	34	D10	E8	22
NC	D6	NC	NC	E7	NC
D12	D7	27	D11	E6	24
S-CS2	D8	15	A19	E5	3
S-VCC	D9	25	VPP	E4	1
F-VCC	D10	25	F-WP	E3	2

* SDP-F1316-64F 72 PINs FBGA (0.8mm pitch) Adapter *
* CONNECTION TABLE: *

PIN/Signal	64-Lead BGA	64-Pin	48-Pin DIP	PIN/Signal	64-Lead BGA	64-Pin	48-Pin DIP
Names	SOCKET	Connector	Base	Names	SOCKET	Connector	Base
NC	A3	1	*	NC	A10	64	*
A17	A4	2	1	F-OE#	A9	63	48
A18	A5	3	2	F-WE#	A8	62	47
F-A20	A6	4	3	F-WP#	A7	61	46
F-VCC	B3	5	38	A12	B10	60	45
A15	B4	6	4	S-OE#	B9	59	*
A16	B5	7	5	F-DQ15	B8	58	44
F-A19	B6	8	6	F-STs	B7	57	*
A14	C3	9	7	DQ6	C10	56	43
NC	C4	10	*	F-DQ14	C9	55	42
S-WE#	C5	11	*	DQ7	C8	54	41
F-CE1#	C6	12	8	S-CE#	C7	53	38
F-CE0#	D3	13	10	F-DQ12	D10	52	40
S-VCC	D4	14	38	DQ5	D9	51	39
A13	D5	15	12	F-DQ13	D8	50	37
NC	D6	16	13	F-GND	D7	49	34
F-RP#	E3	17	9	GND	E10	48	34
F-VPP	E4	18	11	F-DQ11	E9	47	36
A11	E5	19	14	DQ3	E8	46	35
DQ4	E6	20	15	F-VCC	E7	45	38
A9	F3	21	16	DQ2	F10	44	33
A10	F4	22	17	F-VCC	F9	43	38
A8	F5	23	18	F-DQ10	F8	42	32
A5	F6	24	19	DQ0	F7	41	31
A7	G3	25	20	F-DQ8	G10	40	30
F-GND	G4	26	34	DQ1	G9	39	29
A6	G5	27	21	F-DQ9	G8	38	28
NC	G6	28	*	A0	G7	37	27
NC	H3	29	*	NC	H10	36	*
A4	H4	30	22	NC	H9	35	*
A3	H5	31	23	A2	H8	34	26
F-BYTE#	H6	32	24	A1	H7	33	25

* SDP-1329-64F 72 PINs CSP (8mm * 11mm) Adapter *
* CONNECTION TABLE: *

[Note]: Reference to LRS1325 Signal Names

PIN/Signal	64-Lead BGA	64-Pin	48-Pin DIP	PIN/Signal	64-Lead BGA	64-Pin	48-Pin DIP
Names	SOCKET	Connector	Base	Names	SOCKET	Connector	Base
NC	A3	1	*	NC	A10	64	*
A11	A4	2	1	F-DQ15/A-1	A9	63	48

A12	A5	3	2	F-GND	A8	62	34
A13	A6	4	3	S-OE#	A7	61	*
S-CE2	B3	5	34	F-DQ14	B10	60	47
S-WE#	B4	6	*	DQ7	B9	59	46
A10	B5	7	4	S-CE1#	B8	58	38
A9	B6	8	5	A16	B7	57	45
NC	C3	9	6	DQ5	C10	56	44
F-WE#	C4	10	7	F-DQ13	C9	55	43
F-RP#	C5	11	9	DQ6	C8	54	42
NC	C6	12	8	F-DQ12	C7	53	41
F-GND	D3	13	34	F-VCC	D10	52	38
S-VCC	D4	14	38	DQ4	D9	51	40
A8	D5	15	10	F-DQ11	D8	50	39
NC	D6	16	*	F-BYTE#	D7	49	37
F-VPP	E3	17	11	S-GND	E10	48	34
F-WP#	E4	18	12	F-DQ10	E9	47	36
NC	E5	19	13	DQ3	E8	46	35
NC	E6	20	*	NC	E7	45	*
F-A18	F3	21	14	F-DQ9	F10	44	33
F-A17	F4	22	15	DQ1	F9	43	32
A7	F5	23	16	DQ2	F8	42	31
F-RY/BY#	F6	24	*	A14	F7	41	30
A6	G3	25	17	DQ0	G10	40	29
A5	G4	26	18	F-DQ8	G9	39	28
A4	G5	27	19	A15	G8	38	27
A1	G6	28	20	F-GND	G7	37	34
NC	H3	29	*	NC	H10	36	*
A3	H4	30	22	S-A17	H9	35	*
A2	H5	31	23	F-OE#	H8	34	26
A0	H6	32	24	F-CE#	H7	33	25

* SDP-1331-64F 72 PINs CSP (8mm * 11mm) Adapter *
* CONNECTION TABLE: *

[Note]: Reference to LRS1331 Signal Names

PIN/Signal	64-Lead BGA	64-Pin	48-Pin DIP	PIN/Signal	64-Lead BGA	64-Pin	48-Pin DIP
Names	SOCKET	Connector	Base	Names	SOCKET	Connector	Base
NC	A3	1	1	NC	A10	64	*
A11	A4	2	2	F-GND	A9	63	34
A15	A5	3	3	A12	A8	62	48
A14	A6	4	4	A13	A7	61	47
A16	B3	5	5	DQ7	B10	60	46
A8	B4	6	6	DQ14	B9	59	45
A10	B5	7	7	S-WE#	B8	58	*
A9	B6	8	8	DQ15	B7	57	44
F-WE#	C3	9	10	DQ5	C10	56	43
F-RY/BY#	C4	10	12	DQ4	C9	55	42
T1	C5	11	*	DQ6	C8	54	41
S-A17	C6	12	*	DQ13	C7	53	40
GND	D3	13	34	F-VCC	D10	52	38
F-RP#	D4	14	9	S-VCC	D9	51	38
T2	D5	15	*	S-CE2	D8	50	34
T4	D6	16	*	DQ12	D7	49	39
F-WP#	E3	17	13	DQ3	E10	48	37
F-VPP	E4	18	11	DQ2	E9	47	36
F-A19	E5	19	14	DQ10	E8	46	35
DQ11	E6	20	15	T3	E7	45	*
S-LB#	F3	21	*	DQ1	F10	44	33
S-UB#	F4	22	*	DQ0	F9	43	32
S-OE#	F5	23	*	DQ8	F8	42	31
NC	F6	24	*	DQ9	F7	41	30
F-A18	G3	25	16	S-CE1#	G10	40	38
F-A17	G4	26	17	A1	G9	39	29
A7	G5	27	18	A2	G8	38	28
A6	G6	28	19	A3	G7	37	27
NC	H3	29	*	NC	H10	36	*
A5	H4	30	22	F-OE#	H9	35	26

A4	H5	31	23	F-GND	H8	34	34
A0	H6	32	24	F-CE#	H7	33	25

* SDP-1826-64F 72 PINs CSP (8mm * 11mm) Adapter *

* CONNECTION TABLE: *

[Note]: Reference to LRS1331 Signal Names

PIN/Signal Names	64-Lead BGA SOCKET	64-Pin Connector	48-Pin DIP Base	PIN/Signal Names	64-Lead BGA SOCKET	64-Pin Connector	48-Pin DIP Base
A20	A3	1	1	NC	A10	64	*
A11	A4	2	2	F-GND	A9	63	34
A15	A5	3	3	A12	A8	62	48
A14	A6	4	4	A13	A7	61	47
A16	B3	5	5	DQ7	B10	60	46
A8	B4	6	6	DQ14	B9	59	45
A10	B5	7	7	S-WE#	B8	58	*
A9	B6	8	8	DQ15	B7	57	44
F-WE#	C3	9	10	DQ5	C10	56	43
F-RY/BY#	C4	10	12	DQ4	C9	55	42
A21	C5	11	20	DQ6	C8	54	41
S-A17	C6	12	*	DQ13	C7	53	40
GND	D3	13	34	F-VCC	D10	52	38
F-RP#	D4	14	9	S-VCC	D9	51	38
T2	D5	15	*	S-CE2	D8	50	34
T4	D6	16	*	DQ12	D7	49	39
F-WP#	E3	17	13	DQ3	E10	48	37
F-VPP	E4	18	11	DQ2	E9	47	36
F-A19	E5	19	14	DQ10	E8	46	35
DQ11	E6	20	15	T3	E7	45	*
S-LB#	F3	21	*	DQ1	F10	44	33
S-UB#	F4	22	*	DQ0	F9	43	32
S-OE#	F5	23	*	DQ8	F8	42	31
NC	F6	24	*	DQ9	F7	41	30
F-A18	G3	25	16	S-CE1#	G10	40	38
F-A17	G4	26	17	A1	G9	39	29
A7	G5	27	18	A2	G8	38	28
A6	G6	28	19	A3	G7	37	27
NC	H3	29	*	F-CE2#	H10	36	21
A5	H4	30	22	F-OE#	H9	35	26
A4	H5	31	23	F-GND	H8	34	34
A0	H6	32	24	F-CE#	H7	33	25

* SDP-A160-48F AMD 29LV160 (0.8mm pitch) *

* CONNECTION TABLE: *

PIN/Signal Names	48FBGA SOCKET	48-Pin DIP Base	PIN/Signal Names	48FBGA SOCKET	48-Pin DIP Base
NC	C4	1	RESET	B4	48
WP	B3	2	WE	A4	47
RY/BY	A3	3	NC	D3	46
A18	C3	4	A19	D4	45
A17	B2	5	A8	B5	44
A7	A2	6	A9	A5	43
A6	C2	7	A10	C5	42
A5	D2	8	A11	D5	41
A4	B1	9	A12	B6	40
A3	A1	10	A13	A6	39
A2	C1	11	A14	C6	38
A1	D1	12	A15	D6	37
A0	E1	13	A16	E6	36
CE	F1	14	BYTE	F6	35
VSS	H1	15	VSS	H6	34
OE	G1	16	D15	G6	33

D0	E2	17	D7	E5	32
D8	F2	18	D14	F5	31
D1	H2	19	D6	H5	30
D9	G2	20	D13	G5	29
D2	E3	21	D5	E4	28
D10	F3	22	D12	F4	27
D3	H3	23	D4	H4	26
D11	G3	24	VDD	G4	25

* SDP-A800-48F AMD 29LV800 (0.8mm pitch) *
* CONNECTION TABLE: *

PIN/Signal Names	48FBGA SOCKET	48-Pin DIP Base	PIN/Signal Names	48FBGA SOCKET	48-Pin DIP Base
NC	C4	1	RESET	B4	48
WP	B3	2	WE	A4	47
RY/BY	A3	3	NC	D3	46
A18	C3	4	NC	D4	45
A17	B2	5	A8	B5	44
A7	A2	6	A9	A5	43
A6	C2	7	A10	C5	42
A5	D2	8	A11	D5	41
A4	B1	9	A12	B6	40
A3	A1	10	A13	A6	39
A2	C1	11	A14	C6	38
A1	D1	12	A15	D6	37
A0	E1	13	A16	E6	36
CE	F1	14	BYTE	F6	35
VSS	H1	15	VSS	H6	34
OE	G1	16	D15	G6	33
D0	E2	17	D7	E5	32
D8	F2	18	D14	F5	31
D1	H2	19	D6	H5	30
D9	G2	20	D13	G5	29
D2	E3	21	D5	E4	28
D10	F3	22	D12	F4	27
D3	H3	23	D4	H4	26
D11	G3	24	VDD	G4	25

* SDP-A320-63F AMD 29DL32X (8x14 mm size) *
* CONNECTION TABLE: *

PIN/Signal Names	63FBGA SOCKET	48-Pin DIP Base	PIN/Signal Names	63FBGA SOCKET	48-Pin DIP Base
NC	E5	1	RESET	D5	48
WP	D4	2	WE	C5	47
RY/BY	C4	3	A20	F4	46
A18	E4	4	A19	F5	45
A17	D3	5	A8	D6	44
A7	C3	6	A9	C6	43
A6	E3	7	A10	E6	42
A5	F3	8	A11	F6	41
A4	D2	9	A12	D7	40
A3	C2	10	A13	C7	39
A2	E2	11	A14	E7	38
A1	F2	12	A15	F7	37
A0	G2	13	A16	G7	36
CE	H2	14	BYTE	H7	35
VSS	K2	15	VSS	K7	34
OE	J2	16	D15	J7	33
D0	G3	17	D7	G6	32
D8	H3	18	D14	H6	31
D1	K3	19	D6	K6	30
D9	J3	20	D13	J6	29

D2	G4	21	D5	G5	28
D10	H4	22	D12	H5	27
D3	K4	23	D4	K5	26
D11	J4	24	VDD	J5	25

```
*****
* SDP-A320-48F  AMD 29DL32X (6x12 mm size)  *
* CONNECTION TABLE:                        *
*****
```

PIN/Signal Names	48FBGA SOCKET	48-Pin DIP Base	PIN/Signal Names	48FBGA SOCKET	48-Pin DIP Base
NC	C4	1	RESET	B4	48
WP	B3	2	WE	A4	47
RY/BY	A3	3	A20	D3	46
A18	C3	4	A19	D4	45
A17	B2	5	A8	B5	44
A7	A2	6	A9	A5	43
A6	C2	7	A10	C5	42
A5	D2	8	A11	D5	41
A4	B1	9	A12	B6	40
A3	A1	10	A13	A6	39
A2	C1	11	A14	C6	38
A1	D1	12	A15	D6	37
A0	E1	13	A16	E6	36
CE	F1	14	BYTE	F6	35
VSS	H1	15	VSS	H6	34
OE	G1	16	D15	G6	33
D0	E2	17	D7	E5	32
D8	F2	18	D14	F5	31
D1	H2	19	D6	H5	30
D9	G2	20	D13	G5	29
D2	E3	21	D5	E4	28
D10	F3	22	D12	F4	27
D3	H3	23	D4	H4	26
D11	G3	24	VDD	G4	25

```
*****
* SDP-A640-48F  AMD 29DL640                *
* CONNECTION TABLE:                        *
*****
```

PIN/Signal Names	63FBGA SOCKET	48-Pin DIP Base	PIN/Signal Names	63FBGA SOCKET	48-Pin DIP Base
A21	E5	1	RESET#	D5	48
WP#	D4	2	WE#	C5	47
RY/BY#	C4	3	A20	F4	46
A18	E4	4	A19	F5	45
A17	D3	5	A8	D6	44
A7	C3	6	A9	C6	43
A6	E3	7	A10	E6	42
A5	F3	8	A11	F6	41
A4	D2	9	A12	D7	40
A3	C2	10	A13	C7	39
A2	E2	11	A14	E7	38
A1	F2	12	A15	F7	37
A0	G2	13	A16	G7	36
CE#	H2	14	BYTE#	H7	35
VSS	K2	15	VSS	K7	34
OE#	J2	16	D15	J7	33
D0	G3	17	D7	G6	32
D8	H3	18	D14	H6	31
D1	K3	19	D6	K6	30
D9	J3	20	D13	J6	29
D2	G4	21	D5	G5	28
D10	H4	22	D12	H5	27
D3	K4	23	D4	K5	26
D11	J4	24	VDD	J5	25

```

*****
* SDP-A642-64E  AMD 29LV642DU                                     *
* CONNECTION TABLE:                                             *
*****

```

PIN/Signal Names	64FBGA SOCKET	48-Pin DIP Base	PIN/Signal Names	64FBGA SOCKET	48-Pin DIP Base
A21	C5	1	RESET#	B5	48
ACC	B4	2	WE#	A5	47
RY/BY#	A4	3	A20	D4	46
A18	C4	4	A19	D5	45
A17	B3	5	A8	B6	44
A7	A3	6	A9	A6	43
A6	C3	7	A10	C6	42
A5	D3	8	A11	D6	41
A4	B2	9	A12	B7	40
A3	A2	10	A13	A7	39
A2	C2	11	A14	C7	38
A1	D2	12	A15	D7	37
A0	E2	13	A16	E7	36
CE#	F2	14	BYTE#	F7	35
VSS	E8,H2,H7	15	CE2#	G1	34
OE#	G2	16	D15	G7	33
D0	E3	17	D7	E6	32
D8	F3	18	D14	F6	31
D1	H3	19	D6	H6	30
D9	G3	20	D13	G6	29
D2	E4	21	D5	E5	28
D10	F4	22	D12	F5	27
D3	H4	23	D4	H5	26
D11	G4	24	VDD	D8,F1,G5	25

```

*****
* SDP-A128M-64E  AMD 29LV128MH/ML                               *
* CONNECTION TABLE:                                             *
*****

```

PIN/Signal Names	64FBGA SOCKET	48-Pin DIP Base	PIN/Signal Names	64FBGA SOCKET	48-Pin DIP Base
A21	C5	1	RESET#	B5	48
WP#/ACC	B4	2	WE#	A5	47
RY/BY#	A4	3	A20	D4	46
A18	C4	4	A19	D5	45
A17	B3	5	A8	B6	44
A7	A3	6	A9	A6	43
A6	C3	7	A10	C6	42
A5	D3	8	A11	D6	41
A4	B2	9	A12	B7	40
A3	A2	10	A13	A7	39
A2	C2	11	A14	C7	38
A1	D2	12	A15	D7	37
A0	E2	13	A16	E7	36
CE#	F2	14	A22	B8	35
VSS	E8,H2,H7	15	A23	C8	34
OE#	G2	16	D15	G7	33
D0	E3	17	D7	E6	32
D8	F3	18	D14	F6	31
D1	H3	19	D6	H6	30
D9	G3	20	D13	G6	29
D2	E4	21	D5	E5	28
D10	F4	22	D12	F5	27
D3	H4	23	D4	H5	26
D11	G4	24	VDD	D8,F1,G5,F7	25

```

*****

```

* SDP-A256M-56TS AMD 29LV128MH/ML *

* CONNECTION TABLE: *

PIN/Signal	56TSOP	48-Pin DIP	PIN/Signal	56TSOP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
A21	15	1	RESET#	14	48
WP#/ACC	16	2	WE#	13	47
RY/BY#	17	3	A20	12	46
A18	18	4	A19	11	45
A17	19	5	A8	10	44
A7	20	6	A9	9	43
A6	21	7	A10	8	42
A5	22	8	A11	7	41
A4	23	9	A12	6	40
A3	24	10	A13	5	39
A2	25	11	A14	4	38
A1	26	12	A15	3	37
A0	31	13	A16	54	36
CE#	32	14	A22	2	35
VSS	33,52	15	A23	1	34
OE#	34	16	D15	51	33
D0	35	17	D7	50	32
D8	36	18	D14	49	31
D1	37	19	D6	48	30
D9	38	20	D13	47	29
D2	39	21	D5	46	28
D10	40	22	D12	45	27
D3	41	23	D4	44	26
D11	42	24	VDD	29,43,53	25

* SDP-BL802-56SS AMD 29BL802 *

* CONNECTION TABLE: *

PIN/Signal	56SSOP	48-Pin DIP	PIN/Signal	56SSOP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
WE	1	47	LBA#	56	48
RESET	2	2	VDD	55	25
RY/BY	3	3	NC	54	46
A18	4	4	NC	53	45
A17	5	5	A8	52	44
A7	6	6	A9	51	43
A6	7	7	A10	50	42
A5	8	8	A11	49	41
A4	9	9	A12	48	40
A3	10	10	A13	47	39
A2	11	11	A14	46	38
A1	12	12	A15	45	37
A0	13	13	A16	44	36
CE	14	14	NC	43	NC
NC	15	NC	NC	42	35
VSS	16	15	VSS	41	34
OE	17	16	D15	40	33
D0	18	17	D7	39	32
D8	19	18	D14	38	31
D1	20	19	D6	37	30
D9	21	20	D13	36	29
D2	22	21	D5	35	28
D10	23	22	D12	34	27
D3	24	23	D4	33	26
D11	25	24	VDD	32	25
VSS	26	15	VDD	31	25
CLK	27	NC	IND#	30	NC
BAA#	28	NC	NC	29	NC

```

* SDP-41DL16-69F  AMD 4xDL16xx
* CONNECTION TABLE:
*****

```

PIN/Signal 69-Ball FBGA 48-Pin DIP			PIN/Signal 69-Ball FBGA 48-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
A21	D9	1	RESET#	C5	48
WP#/ACC	B5	2	WE#	B6	47
RY/BY#	D5	3	A20	D6	46
A18	D4	4	A19	C7	45
A17	E4	5	A8	B7	44
A7	B3	6	A9	D7	43
A6	C3	7	A10	E7	42
A5	D3	8	A11	B8	41
A4	E3	9	A12	C8	40
A3	C2	10	A13	D8	39
A2	D2	11	A14	E8	38
A1	E2	12	A15	C9	37
A0	F2	13	A16	F9	36
CE#	G2	14	BYTE#	G9	35
GND	F3,C6,H9	15	NC	E9	34
OE#	G3	16	DQ15/A-1	G8	33
DQ0	H3	17	DQ7	H8	32
DQ8	J3	18	DQ14	J8	31
DQ1	F4	19	DQ6	F7	30
DQ9	G4	20	DQ13	G7	29
DQ2	J4	21	DQ5	J7	28
DQ10	H4	22	DQ12	H7	27
DQ3	G5	23	DQ4	G6	26
DQ11	J5	24	VCC	H2,H5,H6	25

```

*****
* SDP-42DL32-73F  AMD 4xDL32xx,4xDL640x,50DL128x
* CONNECTION TABLE:
*****

```

PIN/Signal 73-Ball FBGA 48-Pin DIP			PIN/Signal 73-Ball FBGA 48-Pin DIP		
Names	SOCKET	Base	Names	SOCKET	Base
A21	E9	1	RESET#	D5	48
WP#/ACC	C5	2	WE#	C6	47
RY/BY#	E5	3	A20	E6	46
A18	E4	4	A19	D7	45
A17	F4	5	A8	C7	44
A7	C3	6	A9	E7	43
A6	D3	7	A10	F7	42
A5	E3	8	A11	C8	41
A4	F3	9	A12	D8	40
A3	D2	10	A13	E8	39
A2	E2	11	A14	F8	38
A1	F2	12	A15	D9	37
A0	G2	13	A16	G9	36
CE#	H2	14	BYTE#	H9	35
GND	G3,D6,J9	15	NC	F9	34
OE#	H3	16	DQ15/A-1	H8	33
DQ0	J3	17	DQ7	J8	32
DQ8	K3	18	DQ14	K8	31
DQ1	G4	19	DQ6	G7	30
DQ9	H4	20	DQ13	H7	29
DQ2	K4	21	DQ5	K7	28
DQ10	J4	22	DQ12	J7	27
DQ3	H5	23	DQ4	H6	26
DQ11	K5	24	VCC	J2,J5,J6	25

```

*****
* SDP-AT128-64TQ  Atmel ATmega128
* CONNECTION TABLE:
*****

```

PIN/Signal	64SSOP	32-Pin DIP	PIN/Signal	64SSOP	32-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
PF4(ADC4/TCK)	1	NC	PF5(ADC4/TMS)	64	NC
PF3(ADC3)	2	NC	PF6(ADC3/TDO)	63	NC
PF2(ADC2)	3	NC	PF7(ADC2/TDI)	62	NC
PF1(ADC1)	4	NC	GND	61	16
PF0(ADC0)	5	NC	VCC	60	32
AREF	6	NC	PA0(AD0)	59	24
GND	7	16	PA1(AD1)	58	NC
AVCC	8	32	PA2(AD2)	57	NC
/PEN	9	NC	PA3(AD3)	56	NC
PE0(PDI)/RXD0	10	NC	PA4(AD4)	55	NC
PE1(PDO/TXD0)	11	NC	PA5(AD5)	54	NC
PE2(AIN0/XCK0)	12	NC	PA6(AD6)	53	NC
PE3(AIN1/OC3A)	13	NC	PA7(AD7)	52	NC
PE4(INT4/OC3B)	14	NC	PG2(ALE)	51	NC
PE5(INT5/OC3C)	15	NC	PC7(A15)	50	NC
PE6(INT6/T3)	16	NC	PC6(A14)	49	NC
PE7(INT7/IC3A)	17	NC	PC5(A13)	48	NC
PB0(/SS)	18	6	PG4(A12)	47	NC
PB1(SCK)	19	7	PG3(A11)	46	NC
PB2(MOSI)	20	8	PC2(A10)	45	NC
PB3(MISO)	21	9	PC1(A9)	44	NC
PB4(OC0)	22	10	PC0(A8)	43	NC
PB5(OC1A)	23	11	PG1(/RD)	42	NC
PB6(OC1B)	24	12	PG0(/WR)	41	NC
PB7(OC1C/OC2)	25	13	PD7(T2)	40	23
TOSC2/PG3	26	NC	PD6(T1)	39	22
TOSC1/PG4	27	NC	PD5(XCK1)	38	21
RESET	28	3	PD4(IC1)	37	20
VCC	29	32	PD3(INT3/TXD1)	36	19
GND	30	16	PD2(INT2/RXD1)	35	18
XTAL2	31	NC	PD1(INT1/SDA)	34	17
XTAL1	32	15	PD0(INT0/SCL)	33	NC

* SDP-D160-48U SAMSUNG 28DU160 *
* CONNECTION TABLE: *

PIN/Signal	48FBGA	48-Pin DIP	PIN/Signal	48FBGA	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
NC	C4	1	RESET	B4	48
NC	B3	2	WE	A4	47
RY/BY	A3	3	NC	D3	46
A18	C3	4	A19	D4	45
A17	B2	5	A8	B5	44
A7	A2	6	A9	A5	43
A6	C2	7	A10	C5	42
A5	D2	8	A11	D5	41
A4	B1	9	A12	B6	40
A3	A1	10	A13	A6	39
A2	C1	11	A14	C6	38
A1	D1	12	A15	D6	37
A0	E1	13	A16	E6	36
CE	F1	14	BYTE	F6	35
VSS	H1	15	VSS	H6	34
OE	G1	16	D15	G6	33
D0	E2	17	D7	E5	32
D8	F2	18	D14	F5	31
D1	H2	19	D6	H5	30
D9	G2	20	D13	G5	29
D2	E3	21	D5	E4	28
D10	F3	22	D12	F4	27
D3	H3	23	D4	H4	26
D11	G3	24	VDD	G4	25

```

* SDP-D641-52TS/W  MITSUBISHI M6MG3D641S8TP
* CONNECTION TABLE:
*****

```

PIN/Signal	52TSOP	48-Pin DIP	PIN/Signal	52TSOP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
A15	1	37	A16	52	36
A14	2	38	BYTE#	51	25
A13	3	39	S-UB#	50	34
A12	4	40	GND	49	34
A11	5	41	S-LB#	48	34
A10	6	42	D15/A-1	47	33
A9	7	43	D7	46	32
A8	8	44	D14	45	31
A19	9	14	D6	44	30
S-CE1#	10	25	D13	43	29
WE#	11	45	D5	42	28
F-RP#	12	25	D12	41	27
F-WP#	13	25	D4	40	26
S-VCC	14	25	F-VCC	39	25
S-CE2	15	15	D11	38	24
A21	16	2	D3	37	23
A20	17	46	D10	36	22
A18	18	35	D2	35	21
A17	19	4	D9	34	20
A7	20	6	D1	33	19
A6	21	7	D8	32	18
A5	22	8	D0	31	17
A4	23	9	OE#	30	16
A3	24	10	GND	29	15
A2	25	11	F-CE#	28	15
A1	26	12	A0	27	13

```

*****
* SDP-M157-52TS/W  MITSUBISHI M5M29KE157MT M6MGE157S4KT
* CONNECTION TABLE:
*****

```

PIN/Signal	52TSOP	48-Pin DIP	PIN/Signal	52TSOP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
A15	1	37	A16	52	36
A14	2	38	S-CE2	51	25
A13	3	39	S-UB#	50	34
A12	4	40	GND	49	34
A11	5	41	S-LB#	48	34
A10	6	42	D15	47	33
A9	7	43	D7	46	32
A8	8	44	D14	45	31
A19	9	14	D6	44	30
S-CE1#	10	25	D13	43	29
WE#	11	45	D5	42	28
F-RP#	12	25	D12	41	27
F-WP#	13	25	D4	40	26
S-VCC	14	25	F-VCC	39	25
A22	15	1	D11	38	24
A21	16	2	D3	37	23
A20	17	46	D10	36	22
A18	18	35	D2	35	21
A17	19	4	D9	34	20
A7	20	6	D1	33	19
A6	21	7	D8	32	18
A5	22	8	D0	31	17
A4	23	9	OE#	30	16
A3	24	10	GND	29	15
A2	25	11	F-CE#	28	15
A1	26	12	A0	27	13

```

*****

```

```

* SDP-FU160-46SON Fujitsu MBM29LV800/160 *
* CONNECTION TABLE: *
*****

```

PIN/Signal Names	SON46 SOCKET	48-Pin DIP Base	PIN/Signal Names	SON46 SOCKET	48-Pin DIP Base
NC	NC	1	RESET	11	48
NC	NC	2	WE	10	47
RY/BY	37	3	NC	NC	46
A18	38	4	A19	9	45
A17	39	5	A8	8	44
A7	40	6	A9	7	43
A6	41	7	A10	6	42
A5	42	8	A11	5	41
A4	43	9	A12	4	40
A3	46	10	A13	1	39
A2	45	11	A14	2	38
A1	44	12	A15	3	37
A0	27	13	A16	20	36
CE	26	14	BYTE	21	35
VSS	25	15	VSS	22	34
OE	24	16	D15	23	33
D0	28	17	D7	19	32
D8	29	18	D14	18	31
D1	30	19	D6	17	30
D9	31	20	D13	16	29
D2	32	21	D5	15	28
D10	33	22	D12	14	27
D3	34	23	D4	13	26
D11	35	24	VDD	12	25

```

*****
* SDP-ST064-56TS ST M58LW/LV064A *
* CONNECTION TABLE: *
*****

```

PIN/Signal Names	56-Lead TSOP SOCKET	48-Pin DIP Base	PIN/Signal Names	56-Lead TSOP SOCKET	48-Pin DIP Base
VPP	15	1	E#	14	48
RP#	16	5	A12	13	47
A11	17	2	A13	12	46
A10	18	3	A14	11	45
A9	19	4	A15	10	43
A8	20	6	VDD	9	44
VSS	21	24	A16	8	42
A7	22	7	A17	7	41
A6	23	8	A18	6	40
A5	24	9	A19	5	39
A4	25	10	A20	4	38
A3	26	11	A21	3	37
A2	27	12	R	2	24
A1	28	13	A22	1	36
L#	29	14	NC	56	35
NC	30	15	W#	55	34
K	31	44	G#	54	33
B#	32	NC	R/B#	53	NC
DQ0	33	16	DQ15	52	32
DQ8	34	17	DQ7	51	31
DQ1	35	18	DQ14	50	30
DQ9	36	19	DQ6	49	29
VDD	37	44	VSSQ	48	24
DQ2	38	20	DQ13	47	28
DQ10	39	21	DQ5	46	27
DQ3	40	22	DQ12	45	26
DQ11	41	23	DQ4	44	25
VSS	42	24	VDDQ	43	44

```

*****

```

* SDP-SST800-48F SST 39VF/LF200,39VF/LF400,39VF/LF800,39VF/LF160 *

* CONNECTION TABLE: *

PIN/Signal	48FBGA	48-Pin DIP	PIN/Signal	48FBGA	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
NC	C4	1	NC	B4	48
NC	B3	2	WE#	A4	47
NC	A3	3	NC	D3	46
A18	C3	4	A19	D4	45
A17	B2	5	A8	B5	44
A7	A2	6	A9	A5	43
A6	C2	7	A10	C5	42
A5	D2	8	A11	D5	41
A4	B1	9	A12	B6	40
A3	A1	10	A13	A6	39
A2	C1	11	A14	C6	38
A1	D1	12	A15	D6	37
A0	E1	13	A16	E6	36
CE#	F1	14	NC	F6	35
VSS	H1	15	VSS	H6	34
OE#	G1	16	D15	G6	33
D0	E2	17	D7	E5	32
D8	F2	18	D14	F5	31
D1	H2	19	D6	H5	30
D9	G2	20	D13	G5	29
D2	E3	21	D5	E4	28
D10	F3	22	D12	F4	27
D3	H3	23	D4	H4	26
D11	G3	24	VDD	G4	25

* LVT-320D18-56U Adapter (56 Balls uBGA) *

* CONNECTION TABLE: *

PIN	J2	56-pin uBGA	48-Pin DIP	PIN	J3	56-PIN uBGA	48-Pin DIP
Names		SOCKET	Base	Names		SOCKET	Base
A8	1	A2	14	VPP	1	A5	48
A11	2	A1	2	A18	2	A6	35
A20	3	B3	3	A6	3	A7	46
A9	4	B2	5	A4	4	A8	47
A12	5	B1	1	RST#	5	B5	44
ADV#	6	C4	6	A17	6	B6	43
A21	7	C3	7	A5	7	B7	42
A10	8	C2	8	A3	8	B8	41
A13	9	C1	9	WE#	9	C5	40
A16	10	D4	10	A19	10	C6	39
A14	11	D2	11	A7	11	C7	38
A15	12	D1	12	A2	12	C8	37
A0	13	E8	13	A22	13	D7	36
CE#	14	E7	45	A1	14	D8	4
OE#	15	F8	16	GND	15	A3,B4,F1,G2,G8	34
(DIR)	16	--	15	D12	16	D5	(33)
D4	17	E4	(17)	D2	17	E5	(32)
D6	18	E3	(18)	D1	18	E6	(31)
D15	19	E2	(19)	D10	19	F5	(30)
D11	20	F4	(20)	D9	20	F6	(29)
D13	21	F3	(21)	D0	21	F7	(28)
D14	22	F2	(22)	D3	22	G5	(27)
D5	23	G3	(23)	D8	23	G7	(26)
D7	24	G1	(24)	VCC	24	A4,D6,E1,G4,G6	(25)
VCCH	25	--	25	GND	25	--	34

* LVT-640W30-56U Adapter (56 Balls uBGA) *

* LVT-640W18-56U Adapter (56 Balls uBGA) *

* CONNECTION TABLE: *

PIN Names	J2	56-ball uBGA SOCKET	48-Pin DIP Base	PIN Names	J3	56-ball uBGA SOCKET	48-Pin DIP Base
A8	1	A2	14	VPP	1	A5	48
A11	2	A1	2	A18	2	A6	35
A20	3	B3	3	A6	3	A7	46
A9	4	B2	5	A4	4	A8	47
A12	5	B1	1	RST#	5	B5	44
ADV#	6	C4	6	A17	6	B6	43
A21	7	C3	7	A5	7	B7	42
A10	8	C2	8	A3	8	B8	41
A13	9	C1	9	WE#	9	C5	40
A16	10	D4	10	A19	10	C6	39
A14	11	D2	11	A7	11	C7	38
A15	12	D1	12	A2	12	C8	37
A0	13	E8	13	A22	13	D7	36
CE#	14	E7	45	A1	14	D8	4
OE#	15	F8	16	GND	15	A3,B4,F1,G2,G8	34
(DIR)	16	--	15	D12	16	D5	(33)
D4	17	E4	(17)	D2	17	E5	(32)
D6	18	E3	(18)	D1	18	E6	(31)
D15	19	E2	(19)	D10	19	F5	(30)
D11	20	F4	(20)	D9	20	F6	(29)
D13	21	F3	(21)	D0	21	F7	(28)
D14	22	F2	(22)	D3	22	G5	(27)
D5	23	G3	(23)	D8	23	G7	(26)
D7	24	G1	(24)	VCC	24	A4,G4,R1	(25)
VCCH	25	R2	25	GND	25	--	34

Note:

1.D6,E1,G6 -----+- R2 ---- J2.25 (VCCH)
|
+- R1 ---- J3.24 (VCC)

* LVT-6408W30-80F Adapter (80 Balls FBGA)

*

* LVT-6408W18-80F Adapter (80 Balls FBGA)

*

* CONNECTION TABLE:

*

PIN Names	J2	80-ball FBGA SOCKET	48-Pin DIP Base	PIN Names	J3	80-ball FBGA SOCKET	48-Pin DIP Base
A19	1	C3	14	A21	1	C7	48
A18	2	C2	2	A11	2	C8	35
A4	3	C1	3	A22	3	D7	46
A5	4	D1	5	A12	4	D8	47
VPP	5	E4	1	A9	5	E7	44
A17	6	E2	6	A13	6	E8	43
A3	7	E1	7	ADV#	7	F5	42
A7	8	F2	8	A20	8	F6	41
A2	9	F1	9	A10	9	F7	40
RST#	10	G4	10	A15	10	F8	39
A6	11	G2	11	WE#	11	G5	38
A1	12	G1	12	A8	12	G6	37
A0	13	H1	13	A14	13	G7	36
OE#	14	K2	45	A16	14	G8	4
CE#	15	L1	16	GND	15	C4,C6,D4,D6,E6,L4,L5 L8,M1,M2,M5,M6,M7,M8	34
(DIR)	16	--	15	D13	16	H6	(33)
D8	17	H2	(17)	D5	17	H5	(32)
D2	18	H3	(18)	D7	18	J7	(31)
D10	19	H4	(19)	D14	19	J6	(30)
D0	20	J2	(20)	D12	20	J5	(29)
D1	21	J3	(21)	D15	21	K7	(28)
D3	22	J4	(22)	D6	22	K6	(27)
D9	23	K3	(23)	D4	23	K5	(26)
D11	24	K4	(24)	VCC	24	E5,M4,R1	(25)
VCCH	25	R2	25	GND	25	--	34

Note:

```

1.F4,L7,M3 -----+- R2 ---- J2.25 (VCCH)
                    |
                    +- R1 ---- J3.24 (VCC)

```

```

*****
* LVT-640K3-56U Adapter (56 Balls uBGA)
* LVT-640K18-56U Adapter (56 Balls uBGA)
* LVT-128K3-56U Adapter (56 Balls uBGA)
* LVT-128K18-56U Adapter (56 Balls uBGA)
* CONNECTION TABLE:
*****

```

PIN	J2	56-ball uBGA	48-Pin DIP	PIN	J3	56-ball uBGA	48-Pin DIP
Names		SOCKET	Base	Names		SOCKET	Base
A8	1	A2	14	VPP	1	A5	48
A11	2	A1	2	A18	2	A6	35
A20	3	B3	3	A6	3	A7	46
A9	4	B2	5	A4	4	A8	47
A12	5	B1	1	RST#	5	B5	44
ADV#	6	C4	6	A17	6	B6	43
A21	7	C3	7	A5	7	B7	42
A10	8	C2	8	A3	8	B8	41
A13	9	C1	9	WE#	9	C5	40
A16	10	D4	10	A19	10	C6	39
A14	11	D2	11	A7	11	C7	38
A15	12	D1	12	A2	12	C8	37
A0	13	E8	13	A22	13	D7	36
CE#	14	E7	45	A1	14	D8	4
OE#	15	F8	16	GND	15	A3,B4,F1,G2,G8	34
(DIR)	16	--	15	D12	16	D5	(33)
D4	17	E4	(17)	D2	17	E5	(32)
D6	18	E3	(18)	D1	18	E6	(31)
D15	19	E2	(19)	D10	19	F5	(30)
D11	20	F4	(20)	D9	20	F6	(29)
D13	21	F3	(21)	D0	21	F7	(28)
D14	22	F2	(22)	D3	22	G5	(27)
D5	23	G3	(23)	D8	23	G7	(26)
D7	24	G1	(24)	VCCL	24	[R1]	(25)
VCC	25	A4,G4,[R2]	25	GND	25	--	34

Note:

```

1.D6,E1,G6 -----+- [R2] ---- J2.25 (VCC)
                    |
                    +- [R1] ---- J3.24 (VCCL)

```

```

*****
* LVT-128K3-64E Adapter (64 Balls Easy BGA)
* LVT-128K18-64E Adapter (64 Balls Easy BGA)
* LVT-256K3-64E Adapter (64 Balls Easy BGA)
* LVT-256K18-64E Adapter (64 Balls Easy BGA)
* CONNECTION TABLE:
*****

```

PIN	J2	64-ball uBGA	48-Pin DIP	PIN	J3	64-ball uBGA	48-Pin DIP
Names		SOCKET	Base	Names		SOCKET	Base
A8	1	A3	14	A13	1	A5	48
A6	2	A2	2	A18	2	A7	35
VPEN	3	A4	3	A22	3	A8	46
A1	4	A1	5	A14	4	B5	47
CE#	5	B4	1	A19	5	B7	44
A9	6	B3	6	A15	6	C5	43
A2	7	B1	7	A20	7	C7	42
A12	8	C4	8	A21	8	C8	41
A10	9	C3	9	A16	9	D7	40
A7	10	C2	10	A17	10	D8	39
A3	11	C1	11	OE#	11	F8	38
RST#	12	D4	12	WE#	12	G8	37

A11	13	D3	13	A24	13	H8	36
A5	14	D2	45	A23	14	G1	4
A4	15	D1	16	GND	15	B2,E6,F6,H2,H4,H6	34
(DIR)	16	--	15	D15	16	E7	(33)
D8	17	E1	(17)	D4	17	E5	(32)
D1	18	E2	(18)	D12	18	F5	(31)
D9	19	E3	(19)	D14	19	G7	(30)
D3	20	E4	(20)	D6	20	G6	(29)
D0	21	F2	(21)	D5	21	G5	(28)
D10	22	F3	(22)	D7	22	H7	(27)
D11	23	F4	(23)	D13	23	H5	(26)
D2	24	G3	(24)	VCCL	24	[R1]	(25)
VCC	25	A6,H3,[R2]	25	GND	25	--	34

Note:

```

1.C6,D5,D6,G4 -----+- [R2] ---- J2.25 (VCC)
                        |
                        +- [R1] ---- J3.24 (VCCL)

```

* LVT-256K3-63VF Adapter (79 PINs VFBGA) *
* LVT-256K18-63VF Adapter (79 PINs VFBGA) *
* CONNECTION TABLE: *

PIN	J2	79-ball uBGA	48-Pin DIP	PIN	J3	79-ball uBGA	48-Pin DIP
Names		SOCKET	Base	Names		SOCKET	Base
VPEN	1	A7	14	A18	1	A8	48
A8	2	A4	2	A6	2	A9	35
A11	3	A3	3	A4	3	A10	46
RST#	4	B7	5	A17	4	B8	47
A20	5	B5	1	A5	5	B9	44
A9	6	B4	6	A3	6	B10	43
A12	7	B3	7	A19	7	C8	42
WE#	8	C7	8	A7	8	C9	41
A21	9	C5	9	A2	9	C10	40
A10	10	C4	10	A22	10	D9	39
A13	11	C3	11	A1	11	D10	38
A16	12	D6	12	A0	12	E10	37
A14	13	D4	13	A23	13	E11	36
A15	14	D3	45	OE#	14	F10	4
CE#	15	E9	16	GND	15	A5,B6,C6,F3,G4,G10	34
(DIR)	16	--	15	D12	16	D7	(33)
D15	17	E4	(17)	D1	17	E8	(32)
D6	18	E5	(18)	D2	18	E7	(31)
D4	19	E6	(19)	D0	19	F9	(30)
D14	20	F4	(20)	D9	20	F8	(29)
D13	21	F5	(21)	D10	21	F7	(28)
D11	22	F6	(22)	D8	22	G9	(27)
D7	23	G3	(23)	D3	23	G7	(26)
D5	24	G5	(24)	VCCL	24	[R1]	(25)
VCC	25	A6,G6,[R2]	25	GND	25	--	34

Note:

```

1.D8,E3,G8 -----+- [R2] ---- J2.25 (VCC)
                        |
                        +- [R1] ---- J3.24 (VCCL)
                        |
                        +- Cap3 -- GND
2.VCC -- Cap1 -- GND
3.VPEN -- Cap2 -- GND

```

* LVT-2240WY-80F Adapter (88 Balls VFBGA) *
* LVT-2240WZ-80F Adapter (88 Balls VFBGA) *
* CONNECTION TABLE: *

PIN Names	J2	88-ball uBGA SOCKET	48-Pin DIP Base	PIN Names	J3	88-ball uBGA SOCKET	48-Pin DIP Base
A19	1	B3	14	A21	1	B7	48
A18	2	B2	2	A11	2	B8	35
A4	3	B1	3	A22	3	C7	46
A23	4	C3	5	A12	4	C8	47
A5	5	C1	1	A9	5	D7	44
VPP	6	D4	6	A13	6	D8	43
A17	7	D2	7	A20	7	E6	42
A3	8	D1	8	A10	8	E7	41
A7	9	E2	9	A15	9	E8	40
A2	10	E1	10	WE#	10	F5	39
A6	11	F2	11	A8	11	F6	38
A1	12	F1	12	A14	12	F7	37
A0	13	G1	13	A16	13	F8	36
OE#	14	H8,J2	45	CE2#	14	G8	4
CE1#	15	K1	16	GND	15	B4,C4,C5,E5,K8	34
(DIR)	16	--	15	D13	16	G6	(33)
D8	17	G2	(17)	D5	17	G5	(32)
D2	18	G3	(18)	D7	18	H7	(31)
D10	19	G4	(19)	D14	19	H6	(30)
D0	20	H2	(20)	D12	20	H5	(29)
D1	21	H3	(21)	D15	21	J7	(28)
D3	22	H4	(22)	D6	22	J6	(27)
D9	23	J3	(23)	D4	23	J5	(26)
D11	24	J4	(24)	VCC	24	B5,B6,K6,L4,R1	(25)
VCCH	25	R2	25	GND	25	L1,L2,L5,L6,L7,L8	34

Note:

1.D6,E4,F4,J1,J8,K4,K5,K7,L3 -----+ R2 ---- J2.25 (VCCH)

|

+ R1 ---- J3.24 (VCC)

|

+ Cap3 -- GND

2.VCC -- Cap1 -- GND

3.VPP -- Cap2 -- GND

* LVT-ST432-64F Adapter (64 Balls uBGA) *
* CONNECTION TABLE: *

PIN Names	J2	64-ball uBGA SOCKET	48-Pin DIP Base	PIN Names	J3	64-ball uBGA SOCKET	48-Pin DIP Base
WPF#	1	E1	14	WF#	1	C1	48
A18	2	G1	2	A16	2	B1	35
VPPF	3	E2	3	A20	3	A1	46
A17	4	G2	5	RPF#	4	D2	47
A5	5	H2	1	A8	5	B2	44
A19	6	E3	6	A11	6	A2	43
A7	7	G3	7	NC	7	D3	42
A4	8	H3	8	NC	8	C3	41
A6	9	G4	9	A10	9	B3	40
A0	10	H4	10	A15	10	A3	39
A3	11	G5	11	A9	11	B4	38
EF#	12	H5	12	A14	12	A4	37
A2	13	G6	13	A13	13	A5	36
A1	14	G7	45	A12	14	A6	4
GF#	15	H7	16	GND	15	A7,D1,D6,H6	34
(DIR)	16	--	15	D15	16	B5	(33)
D11	17	E4	(17)	D13	17	C5	(32)
D9	18	F5	(18)	D12	18	D5	(31)
D8	19	F6	(19)	D6	19	C6	(30)
D10	20	E6	(20)	D14	20	B7	(29)
D0	21	F7	(21)	D4	21	C7	(28)
D2	22	E7	(22)	D7	22	B8	(27)
D1	23	F8	(23)	D5	23	C8	(26)
D3	24	E8	(24)	VCCL	24	B6,D7,D8,F3,G8	(25)
VCC	25	--	25	GND	25	--	34

```
*****
* LVT-ADS323-48TS Adapter (48 PINs TSOP)
* CONNECTION TABLE:
*****
```

PIN	J2	48-pin TSOP	48-Pin DIP	PIN	J3	48-PIN TSOP	48-Pin DIP
Names		SOCKET	Base	Names		SOCKET	Base
CE#	1	26	14	RP#	1	12	48
WP#	2	14	2	BYTE#	2	47	35
RY/BY	3	15	3	A20	3	10	46
A17	4	17	5	WE#	4	11	47
VCCW	5	13	1	A8	5	8	44
A7	6	18	6	A9	6	7	43
A6	7	19	7	A10	7	6	42
A5	8	20	8	A11	8	5	41
A4	9	21	9	A12	9	4	40
A3	10	22	10	A13	10	3	39
A2	11	23	11	A14	11	2	38
A1	12	24	12	A15	12	1	37
A0	13	25	13	A16	13	48	36
A19	14	9	45	A18	14	16	4
OE#	15	28	16	GND	15	46	34
(DIR)	16	--	15	D15	16	45	(33)
D0	17	29	(17)	D7	17	44	(32)
D8	18	30	(18)	D14	18	43	(31)
D1	19	31	(19)	D6	19	42	(30)
D9	20	32	(20)	D13	20	41	(29)
D2	21	33	(21)	D5	21	40	(28)
D10	22	34	(22)	D12	22	39	(27)
D3	23	35	(23)	D4	23	38	(26)
D11	24	36	(24)	VCC	24	37	(25)
VCCH	25	--	25	GND	25	27	34

```
*****
* GDP-1611-48TS Adapter (48 PINs TSOP)
* CONNECTION TABLE:
*****
```

PIN	48-pin TSOP	48-Pin DIP	PIN	48-PIN TSOP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
*	13	1	*	12	36
*	14	2	*	11	48
*	15	3	*	10	47
*	16	4	*	9	45
*	17	5	*	8	46
*	18	6	*	7	43
*	19	7	*	6	44
*	20	8	*	5	42
*	21	9	*	4	41
*	22	10	*	3	40
*	23	12	*	2	39
*	24	11	*	1	38
*	25	14	*	48	15
*	26	34	*	47	33
*	27	18	*	46	29
*	28	16	*	45	37
*	29	13	*	44	35
*	30	17	*	43	32
*	31	19	*	42	31
*	32	20	*	41	28
*	33	21	*	40	27
*	34	22	*	39	26
*	35	23	*	38	30
*	36	24	*	37	25

```

* GDP-1305-48TSS Adapter (48 PINs TSOP)
* GDP-ST064-48TS Adapter (48 PINs TSOP)
* CONNECTION TABLE:
*****

```

PIN Names	48-pin TSOP SOCKET	48-Pin DIP Base	PIN Names	48-PIN TSOP SOCKET	48-Pin DIP Base
*	13	1	*	12	48
*	14	5	*	11	40
*	15	3	*	10	46
*	16	4	*	9	45
*	17	2	*	8	44
*	18	6	*	7	43
*	19	7	*	6	42
*	20	8	*	5	41
*	21	9	*	4	47
*	22	10	*	3	39
*	23	11	*	2	38
*	24	12	*	1	37
*	25	13	*	48	36
*	26	14	*	47	35
*	27	15	*	46	34
*	28	16	*	45	33
*	29	17	*	44	32
*	30	18	*	43	31
*	31	19	*	42	30
*	32	20	*	41	29
*	33	21	*	40	28
*	34	22	*	39	27
*	35	23	*	38	26
*	36	24	*	37	25

```

*****
* GDP-130x-48TSS Adapter (48 PINs TSOP)
* CONNECTION TABLE:
*****

```

PIN Names	48-pin TSOP SOCKET	48-Pin DIP Base	PIN Names	48-PIN TSOP SOCKET	48-Pin DIP Base
*	13	2	*	12	48
*	14	4	*	11	47
*	15	8	*	10	42
*	16	10	*	9	28
*	17	14	*	8	46
*	18	13	*	7	36
*	19	21	*	6	27
*	20	1	*	5	26
*	21	15	*	4	45
*	22	17	*	3	22
*	23	5	*	2	40
*	24	3	*	1	39
*	25	7	*	48	38
*	26	9	*	47	35
*	27	18	*	46	44
*	28	12	*	45	34
*	29	6	*	44	43
*	30	11	*	43	33
*	31	37	*	42	32
*	32	24	*	41	29
*	33	16	*	40	30
*	34	20	*	39	31
*	35	19	*	38	41
*	36	23	*	37	25

```

*****
* GDP-F320-56SS Intel 28F320J5 (56 PINs SSOP)
* CONNECTION TABLE:
*****

```

IN/Signal	56-Lead SSOP	48-Pin DIP	PIN/Signal	56-Lead SSOP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
CE0	1	1	VPP	56	48
A12	2	2	RP	55	43
A13	3	3	A11	54	47
A14	4	4	A10	53	46
A15	5	5	A9	52	45
3/5,A22	6	6	A1	51	44
CE	7	7	A2	50	42
A21,NC	8	8	A3	49	41
A20	9	9	A4	48	40
A19	10	10	A5	47	39
A18	11	11	A6	46	38
A17	12	12	A7	45	37
A16	13	13	GND	44	24
VCC	14	34	A8	43	36
GND	15	24	VCC	42	34
DQ6	16	14	DQ9	41	NC
DQ14	17	NC	DQ1	40	35
DQ7	18	16	DQ8	39	NC
DQ15	19	NC	DQ0	38	30
RY/BY,STS	20	17	A0	37	33
OE	21	18	BYTE	36	32
WE	22	19	NC,ADV	35	31
WP,NC	23	20	CE2,NC,CLK	34	29
DQ13	24	NC	DQ2	33	28
DQ5	25	21	DQ10	32	NC
DQ12	26	NC	DQ3	31	27
DQ4	27	22	DQ11	30	NC
VCC,VCCQ	28	34	GND	29	24

```

*****
* GDP-F640-56TS Intel E28F016SA(56 PINs TSOP) *
* GDP-F016-56TS Intel E28F128J3A(56 PINs TSOP) *
* CONNECTION TABLE: *
*****

```

PIN/Signal	56-Lead TSOP	48-Pin DIP	PIN/Signal	56-Lead TSOP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
VPP	15	1	CE0	14	48
RP	16	7	A12	13	47
A11	17	3	A13	12	46
A10	18	4	A14	11	45
A9	19	5	A15	10	44
A8	20	6	VCC	9	25
GND	21	14	A16	8	42
A7	22	8	A17	7	41
A6	23	9	A18	6	40
A5	24	10	A19	5	39
A4	25	11	A20	4	38
A3	26	12	NC	3	37
A2	27	13	CE1	2	36
A1	28	2	3/5	1	35
NC	29	19	WP	56	34
NC	30	22	WE	55	28
BYTE	31	15	OE	54	32
A0	32	16	RY/BY	53	31
DQ0	33	17	DQ15	52	NC
DQ8	34	NC	DQ7	51	30
DQ1	35	18	DQ14	50	NC
DQ9	36	NC	DQ6	49	29
VCC	37	25	GND	48	33
DQ2	38	20	DQ13	47	NC
DQ10	39	NC	DQ5	46	27
DQ3	40	21	DQ12	45	NC
DQ11	41	NC	DQ4	44	26
GND	42	24	VCC	43	25

GDP-F640-56TS:

This adapter need 3 capacitor:
C1: 21 <-> 9 (Pin # of 56-Lead TSOP Socket)
C2: 21 <-> 48
C3: 42 <-> 48

```
*****
* GDP-DIP-001 for Mortorola HC705P6/A,HC705P9,          *
*               Atmel 90S44xx/85xx                      *
* GDP-DIP-002 for Altera EPC1/2,Atmel 17Cxxx,17LVxx PROM *
* 48 PINs DIP                                           *
* CONNECTION TABLE:                                   *
*****
```

PIN	48-pin DIP	48-Pin DIP	PIN	48-PIN DIP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
*	1	2	*	48	48
*	2	4	*	47	47
*	3	8	*	46	42
*	4	10	*	45	28
*	5	14	*	44	46
*	6	13	*	43	36
*	7	21	*	42	27
*	8	1	*	41	26
*	9	15	*	40	45
*	10	17	*	39	22
*	11	5	*	38	40
*	12	3	*	37	39
*	13	7	*	36	38
*	14	9	*	35	35
*	15	18	*	34	44
*	16	12	*	33	34
*	17	6	*	32	43
*	18	11	*	31	33
*	19	37	*	30	32
*	20	24	*	29	29
*	21	16	*	28	30
*	22	20	*	27	31
*	23	19	*	26	41
*	24	23	*	25	25

GDP-DIP-002:
Add one 0.1uF(104) and one 1uF TC between VPP and GND

```
*****
* GDP-DIP-003                                           *
* 48 PINs DIP                                           *
* CONNECTION TABLE:                                   *
*****
```

PIN	48-pin DIP	48-Pin DIP	PIN	48-PIN DIP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
*	1	1	*	48	48
*	2	2	*	47	47
*	3	3	*	46	46
*	4	4	*	45	45
*	5	5	*	44	42
*	6	8	*	43	40
*	7	10	*	42	28
*	8	13	*	41	27
*	9	7	*	40	43
*	10	15	*	39	26
*	11	17	*	38	41
*	12	12	*	37	36
*	13	6	*	36	44
*	14	20	*	35	33
*	15	38	*	34	14
*	16	34	*	33	39
*	17	21	*	32	35

*	18	9	*	31	22
*	19	18	*	30	29
*	20	16	*	29	30
*	21	11	*	28	25
*	22	24	*	27	32
*	23	23	*	26	37
*	24	19	*	25	31

```
*****
* GDP-PLCC-4401 Adapter (44 PINS PLCC) 68HC705C8/A *
* GDP-TQFP-4401 Adapter (44 PINS TQFP) 68HC705C8/A44 *
* CONNECTION TABLE: *
*****
```

PIN	44-pin DIP	48-Pin DIP	PIN	44-PIN DIP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
*	1	14	*	44	48
*	2	1	*	43	46
*	3	3	*	42	44
*	4	5	*	41	45
*	5	6	*	40	43
*	6	7	*	39	41
*	7	8	*	38	39
*	8	9	*	37	36
*	9	10	*	36	40
*	10	11	*	35	38
*	11	12	*	34	34
*	12	29	*	33	33
*	13	24	*	32	37
*	14	13	*	31	35
*	15	15	*	30	32
*	16	16	*	29	31
*	17	19	*	28	28
*	18	17	*	27	27
*	19	21	*	26	26
*	20	20	*	25	22
*	21	23	*	24	25
*	22	18	*	23	30

```
*****
* GDP-PLCC-4402 Adapter *
* CONNECTION TABLE: *
*****
```

PIN	44-pin DIP	48-Pin DIP	PIN	44-PIN DIP	48-Pin DIP
Names	SOCKET	Base	Names	SOCKET	Base
*	1	14	*	44	48
*	2	1	*	43	46
*	3	5	*	42	44
*	4	3	*	41	45
*	5	6	*	40	41
*	6	7	*	39	43
*	7	8	*	38	39
*	8	9	*	37	36
*	9	10	*	36	40
*	10	11	*	35	38
*	11	12	*	34	34
*	12	29	*	33	33
*	13	24	*	32	37
*	14	13	*	31	35
*	15	15	*	30	32
*	16	16	*	29	31
*	17	17	*	28	28
*	18	19	*	27	27
*	19	21	*	26	26
*	20	20	*	25	22
*	21	23	*	24	25
*	22	18	*	23	30

```

*****
* GDP-TSOP-2801 Adapter
* CONNECTION TABLE:
*****

```

Pin	28-Pin TSOP	48-Pin DIP	Pin	28-Pin TSOP	48-Pin DIP
Names	Socket	Base	Names	Socket	Base
*	8	14	*	7	29
*	9	6	*	6	25
*	10	7	*	5	46
*	11	9	*	4	44
*	12	11	*	3	43
*	13	12	*	2	41
*	14	15	*	1	38
*	15	16	*	28	37
*	16	17	*	27	35
*	17	18	*	26	34
*	18	19	*	25	33
*	17	20	*	24	32
*	20	23	*	23	31
*	21	24	*	22	30