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CHAPTER 5

Using Adapters

Adapter Requirements

LABTOOL-48UXP supports universal 48-pin TSOP, 44-pin PLCC, 44 pin QFP, 44 pin TQFP, 44 pin SOP, 40-pin TSOP and 32-pin TSOP pin packages and more. You will need to order an adapter for non-DIL chip packages. Following is the adapters available to fit your need. More new adapters will available when a new chip release. Please contact your local distributor for update adapter available.

User can build the adapter by himself; detail adapter pin swap table can be down load from web:
www.aec.com.tw/products/adapter.pdf

PLCC2020-01	20 pin PLCC adapter for 20 pin PLCC GAL/PAL
PLCC2824-04	28 pin PLCC adapter (NC =1, 8,15,22) for 28 pin PLCC GAL/PAL
PLCC3228-11	32 pin PLCC adapter (NC= 1,12,17,26) for E/EEPROM below 512 K
PLCC3232-11	32 pin PLCC adapter for E/EEPROM with 1M and up
PLCC4440-01	44 pin PLCC adapter (NC= 1,13,23,33) for 44 pin PLCC 16 bit EPROM
PLCC4440-02	44 pin PLCC adapter (NC= 1,12,23,34) for 44 pin PLCC 875X processor
SDP-UNIV-16/TS	16 pin TSOP universal adapter for 8-16 pin TSOP
SDP-UNIV-16SO	16 pin SOIC (150mil) universal adapter for 8-16 pin SOIC

SDP-UNIV-16SO/170	16 pin SOIC (173 mil) universal adapter 1.27m pitch
SDP-UNIV-20SO/200	20 pin SOIC (207mil) universal adapter for 8-20 pin SOIC
SDP-UNIV-20SO	20 pin SOIC (300mil) universal adapter for 16-20 pin SOIC
SDP-UNIV-28SO/300	28 pin SOIC (300mil) universal adapter for 24-28 pin SOIC
SDP-UNIV-28SS/200	28 pin SSOP universal adapters for 200mil x 0.65mm pitch
SDP-PIC-20SS/200	20pin SSOP universal adapter for PIC MCU 200mil x 0.65mm pitch
SDP-UNIV-24SS/150	24 pin SSOP universal adapter for 150mil x 0.635mm pitch
SDP-UNIV-48SS/300	48 pin SSOP universal adapter for 300mil x 0.635mm pitch
SDP-UNIV-28TS	28 pin TSOP (8mm x 14mm) universal adapter for 28 pin TSOP Flash memory
SDP-UNIV-28TSS/170	28 pin TSSOP (173 mil) universal adapter pitch 0.65mm
SDP-UNIV-32TS	32 pin TSOP (8mm x 20mm) universal adapter for 32 pin TSOP Flash memory
SDP-UNIV-32TS/W	32 pin TSOP (8mm x 14mm) universal adapter for 32 pin TSOP Flash memory
SDP-UNIV-32TQ	32 pin TQFP universal adapter
SDP-UNIV-40TS	40 pin TSOP (10mm x 20mm) universal adapter for 40 pin TSOP Flash memory

SDP-UNIV-40TS/W	40 pin TSOP (10mm x 14mm) universal adapter for 40 pin TSOP Flash memory
SDP-UNIV-40TSS	40 pin TSSOP universal adapter for 40 pin TSSOP Flash memory
SDP-UNIV-44TS	44 pin TSOP universal adapter for Samsung /Toshiba 44pin TSOP NAND Flash memory
SDP-UNIV-44	44 pin PLCC universal adapter
SDP-UNIV-44TQ	44 pin TQFP universal adapter
SDP-UNIV-44PSO	44 pin PSOP universal adapter for 44 pin PSOP Flash memory
SDP-UNIV-44Q	44 pin PQFP universal adapter
SDP-UNIV-48TS	48 pin TSOP (12mm x 20mm) universal adapter for 48 pin TSOP Flash memory
SDP-UNIV-48TS/W	48 pin TSOP (12mm x 14mm) universal adapter for 48 pin TSOP Flash memory
SDP-UNIV-48TSS	48 pin TSSOP (10mm x 14mm) with 0.4mm pitch universal adapter for Flash memory
SDP-UNIV-44C	44 pin PLCC (clamshell socket) universal adapter
SDP-UNIV-42SD	42 pin Shrink DIP universal adapter
SDP-5128-68	68 pin PLCC adapter for ALTERA 5128/A
SDP-7064-68	68 pin PLCC adapter for ALTERA 7064/7096
SDP-5192-84	84 pin PLCC adapter for ALTERA 5192/A
SDP-7064-84	84 pin PLCC adapter for ALTERA 7064/7096
SDP-7128-84	84 pin PLCC adapter for ALTERA 7128/E
SDP-7160-84	84 pin PLCC adapter for ALTERA 7160/E
SDP-7064-100Q	100 pin QFP adapter for ALTERA 7064

SDP-7096-100Q	100 pin QFP adapter for ALTERA 7096
SDP-7128-100Q	100 pin QFP adapter for ALTERA 7128/E
SDP-7160-100Q	100 pin QFP adapter for ALTERA 7160/E
SDP-M120-68	68 pin PLCC adapter for AMD MACH 12X/22X
SDP-M130-84	84 pin PLCC adapter for AMD MACH 13X/23X/435 and M4/128
SDP-M131-100Q	100 pin QFP adapter for AMD MACH 131/231SP
SDP-9572-84	84 pin PLCC adapter for XILINX XC9572
SDP-95108-84	84 pin PLCC adapter for XILINX XC95108
SDP-95108-100Q	100 pin QFP adapter for XILINX XC95108
SDP-6811-52B	52 pin PLCC adapter for Motorola 68 HC11 A1/E9/E1/E2, 68 HC711E9/E20
SDP-908AS-52	52 pin PLCC adapter for Motorola 68HC908AS
SDP-705B-52	52 pin PLCC adapter for Motorola 68705B5/B16/B32
SDP-C530-52	52 pin PLCC adapter for Dallas 87C530
SDP-7552-68	68 pin PLCC adapter for Philips 87C552
SDP-7592-68	68 pin PLCC adapter for Philips 87C592
SDP-11L6-68	68 pin PLCC adapter for Motorola MC68HC711L6
SDP-11F1-68	68 pin PLCC adapter for Motorola 68HC11F1
SDP-196K-68	68 pin PLCC adapter for Intel 87C196KB/KD/KC
SDP-196J-68	68 pin PLCC adapter for Intel 87C196KR/KQ/JR
SDP-320E-68	68 pin PLCC adapter for TI TMS320E25
SDP-C752-68	68 pin PLCC PIC 17C752/6 adapter

SDP-C923-68	68 pin PLCC adapter for Microchip PIC 16C923/924
SDP-11K1-84	84 pin PLCC adapter for Motorola XC68HC11K1/K4
SDP-96MH-84	84 pin PLCC adapter for Intel 87C196MH/MC
SDP-AD816-52Q	52 pin QFP adapter for Analog device AduC812/816 MCU
SDP-705X-64Q	64 pin QFP adapter for Motorola 68HC705X32
SDP-C923-64TQ	64 pin TQFP adapter for PIC 16C923/4
SDP-C508-64Q	64 QFP adapter for Infineon C508-4E
SDP-C515-80Q	80pin QFP adapter for Infineon C515/C505L
SDP-908AZ-64Q	64QFP adapter for Motorola 68HC908AZ60
SDP-1024-68	68 pin PLCC adapter for LATTICE PLSI1024
SDP-1032-84	84 pin PLCC adapter for LATTICE PLSI1032/2064
SDP-i320-48U	48 pin uBGA adapter for Intel 28F320B3/C3, 28F160B3/C3 (0.75mm pitch)
SDP-i320-48VF	48 pin VFBGA adapter for Intel 28F320B3C, 28F320C3C, 28F160C3C
SDP-i640-48VF	48 ball VFBGA adapter for Intel GE28F640C3
SDP-S160-48U	48 pin UBGA adapter for SHARP 28F160BJE
SDP-ST320-48U	48 pin UBGA (0.75mm pitch) adapter for ST28W320CT
LVT-320D18-56U	uBGA adapter for Intel 28F320D18 (1.8Vcc,I/O)
LVT-128W18-56U	56 ball VFBGA adapter for Intel GE28F128W18
LVT-128W30-56U	56 ball VFBGA adapter for Intel GE28F128W30
LVT-128K3-56U	56 ball VFBGA adapter for Intel GE28F128K3

LVT-640W18-56U	uBGA adapter for Intel 28F320/640/128W18 (1.8Vcc, I/O)
LVT-640W30-56U	uBGA adapter for Intel 28F320/640W30 (1.8Vcc, 3V I/O)
LVT-6408W30-80F	80 pin uBGA adapter for Intel 28F6408W18 CSP Flash
SDP-F256-80F	80 ball VFBGA adapter for Intel RD28F256SJ3AM, D28F192SJ3AM, RD28F128SJ3AM
SDP-EBGA-001	72 pin EBGA (1.0mm pitch) adapter for Intel 28F800/160/320F3/C3
SDP-EBGA-002	72 pin Easy BGA (1.0mm pitch) adapter for Intel28F320/640/128J3A
SDP-F1316-64F	72 pin FBGA (0.8mm pitch) adapter for SHARP LRS1306/1316A
SDP-1329-64F	72 pin CSP (8mm x11mm) adapter for SHARP LRS1329/1340/1349/1356
SDP-1331-64F	72 pin CSP (8mm x 11mm) adapter for SHARP LRS1331/37/41/42,LRS1357/58,LRS1362/63/ 64/65
SDP-1826-64F	64 ball FBGA adapter for SHARP LRS1826 and ATMEL AT52BR3244/3248
SDP-3204-64F	72 pin CSP adapter for Intel RD28F1604/RD28F3204
SDP-3208-64F	64 pin uBGA adapter for Intel RD28F3208
SDP-A320-48F	48 pin uBGA adapter for AMD 29DL32X (6x12mm size)

SDP-A320-63F	63 pin uBGA adapter for AMD29DL32X (8x14mm size)
SDP-41DL16-69F	69 ball FBGA adapter for AMD 41DL16xxMCP
SDP-42DL32-73F	73 ball FBGA adapter for AMD 41DL32xxMCP
SDP-ST064-56TS	56 pin TSOP adapter for ST 58LW064A
SDP-F400-56TS	56 pin TSOP adapter for Intel 28F400/28F200
SDP-F160-56SS	56 PIN SSOP adapter for Intel 28F160F3
SDP-F320-56SS	56 PIN SSOP adapter for Intel 28F160/320S3/S5
SDP-BL802-56SS	56 PIN SSOP adapter for AMD29BL802C/1602C
SDP-A160-48F	FBGA adapter for AMD 29LV160 (0.8mm pitch)
SDP-A640-48F	FBGA adapter (0.8mm pitch) adapter for AMD 29DL640D
SDP-A800-48F	FBGA adapter for AMD 29LV800 (0.8mm pitch)
SDP-FU160-46SON	46 SON adapter for Fujitsu 29LV800/160
LVT-ADS323-48TS	1.8V low voltage adapter for AMD 29DS32X (48TSOP)
GDP-1305-48TSS	48 pin TSSOP adapter for SHARP LRS1305
GDP-130X-48TSS	48 pin TSSOP adapter for SHARP LRS 1306/8
GDP-F016-56TS	56 pin TSOP adapter for Intel 28F016/032S3/S5
GDP-F320-56SS	56 pin SSOP adapter for Intel 28F320/640/128J5/J3
GDP-F640-56TS	56 pin TSOP adapter for Intel 28F320/640J5/J3
SDP-3224-100Q	100 pin QFP adapter for STV0680

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