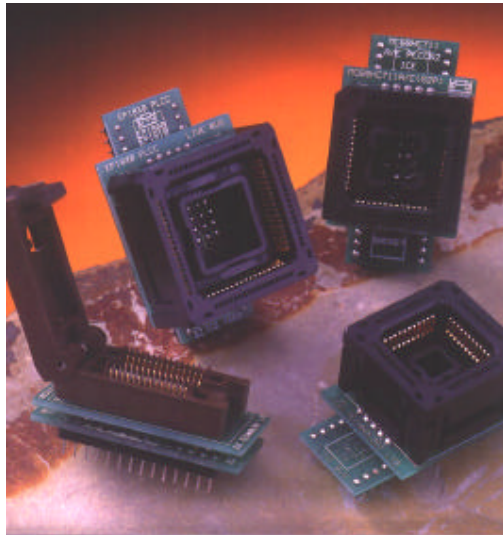


# Package Adapters for 48-pin Programmers



A wide range of package adapters is available for all ICE Technology programmers. Adapters shown in this data sheet cover our 48-pin programmer range only. This includes models *Micromaster LV48*, *Speedmaster LV48* and the *EPMaster LV48*. Adapters for the LV40 Portable, plus our old range of 40-pin programmers, can be found on a separate data sheet. Adapters suitable for use on the Speedmaster GLV-32 Gang programmer are also listed on this data sheet.

In addition to those shown, new adapters are always being produced; if you require an adapter not listed here, or simply require assistance selecting the appropriate adapter, just contact our technical support team.

Adapters which map to 32-pins or less dual in-line packaging (DIP), are usually suitable for use with programmers from other manufacturers.

DESCRIPTION - Universal memory, microcontroller and logic PLCC, SOIC and QFP adapters	ORDER CODE
20 PLCC to 20 DIP. Pin to pin convertor suitable for standard 20-pin JEDEC logic parts	AD-20PL-20DIP
20 PLCC to 8 DIP. For Altera FPGA configuration serial PROMs	AD-20PL-EPC1
20 PLCC to 8 DIP. For Xilinx, Atmel, AT&T & Microchip FPGA configuration serial PROMs	AD-20PL-XIL17XX
28 PLCC to 24 DIP. Converts 28 pin PLCC parts to 24 pin DIP	AD-28PL-24DIP
28 PLCC to 28 DIP. Pin to pin convertor	AD-28PL-28DIP†
32 PLCC to 28 DIP. Converts 32 pin PLCC EPROMs, upto 27C512, to 28 pin DIP	AD-32PL-28DIP†
32 PLCC to 32 DIP. Pin to pin convertor	AD-32PL-32DIP†
44 PLCC to 44 DIP. For all 44 pin PLCC parts (memory, PLDs & micros)	AD-44PL-44DIP
44 PLCC to 44 DIP. Clam Shell. For all 44 pin PLCC parts (memory, PLDs & micros)	AD-44PL-44HT
44 QFP to 44 DIP. For all 44 pin parts in standard QFP packaging (memory, PLDs & micros)	AD-44QF-44DIP
44 TQFP to 44 DIP. For all 44 pin parts in standard TQFP packaging (memory, PLDs & micros)	AD-44TQ-44DIP
16 SOIC to 16 DIP. Clam shell. Suitable for 8 and 16-pin JEDEC SOIC parts (0.15" wide)	AD-16SO-JEDEC
20 SOIC to 20 DIP. Clam shell. Suitable for 8, 16 & 20-pin EIAJ SOIC parts (0.2" wide)	AD-20SO-EIAJ
28 SOIC to 28 DIP. Clam shell. Suitable for 18, 24 and 28-pin SOIC parts (0.3" wide)	AD-28SO-28DIP†
DESCRIPTION - General memory SOP adapters - support standard JEDEC size & pinout. Includes Alliance, AMD, Atmel, Fujitsu, Hyundai, Intel, Macronix, Samsung, ST Micros, Sharp, SST, Winbond etc.	
28 TSOP to 28 DIP. Clam shell, pin to pin convertor (13.4mm long)	AD-28TS-28DIP†
32 TSOP to 32 DIP. Clam shell, pin to pin convertor (20 mm long)	AD-32TS-32HT†
32 TSOP to 32 DIP. Spring-wall, pin to pin convertor (20 mm long)	AD-32TS-32DIP†
32 TSOP (VSOP) to 32 DIP. Clam shell, pin to pin convertor. For all 8/16-bit memory (14 mm long)	AD-32VS-32DIP
40 TSOP to 40 DIP. Spring-wall, pin to pin convertor (20 mm long). For all 8/16-bit Flash memory	AD-40TS40-FLASH
40 TSOP (VSOP) to 40 DIP. Clam shell, pin to pin convertor. For all 8/16-bit memory (14 mm long)	AD-40VS-40DIP
44 PSOP to 44 DIP. Clam shell, pin to pin convertor (28.2 mm long). For all 8/16 bit Flash memory	AD-44PS-44DIP
44(40) TSOP (VSOP) to 40 DIP. For Flash memory devices in 44(40) TSOP (VSOP) packaging	AD-44TSII-40DIP
48 TSOP to 48 DIP. Spring wall, pin to pin convertor (20 mm long). For all 8/16-bit Flash memory	AD-48TS-48DIP
48 TSOP to 40 DIP. Spring wall (20 mm long). Suitable for AMD Am29F016B/017B/032B and Fujitsu MBM29F080 in 48-pin TSOP package	AD-48TS40-F0XX
56 TSOP to 48 DIP. Spring wall (20 mm long). Suitable for 28 series 8-bit Flash memory. e.g. 29F004/008/016 etc & Intel Strata Flash 28FxxxJ3/J5	AD-56TS48-F0XX
56 TSOP to 48 DIP. Spring wall (20 mm long). Suitable for 28 series 8/16-bit Flash memory. e.g. 28F200/400/800 etc.	AD-56TS48-FX00

† suitable for use on the GLV-32 Gang programmer

DESCRIPTION - Programmable Logic PLCC and QFP adapters	ORDER CODE
EP600 28 PLCC to 24 DIP. Suitable for Altera's EP600 family and the Intel 85C060/iPLD600 family of devices in 28 pin PLCC packaging	AD-28PL-EP6XX
EP1800 68 PLCC to 40 DIP. Suitable for Altera's EP1800 family and the Intel 85C180 family of devices in 68 pin PLCC packaging	AD-68PL-EP18XX
MAX5000 68 PLCC to 40 DIP. Suitable for Altera EPM5128 devices in 68 pin PLCC packaging	AD-68PL-EPM5128
MAX7000 68 PLCC to 40 DIP. Suitable for Altera EPM7064 devices in 68 pin PLCC packaging	AD-68PL-EPM7064
MAX7000 84 PLCC to 40 DIP. Suitable for Altera EPM7064 devices in 84 pin PLCC packaging	AD-84PL-EPM7064
Altera JAM 44-pin PLCC adapter. Suitable for Altera EPM7032S and EPM7064S devices in 44-pin PLCC packaging using JAM files	AD-44PL-JAM
Altera JAM 68-pin PLCC adapter. Suitable for Altera EPM7064S and EPM7096S devices in 68-pin PLCC packaging using JAM files	AD-68PL-JAM
Altera JAM 84-pin PLCC adapter. Suitable for Altera EPM7064S, EPM7096S, EPM7128S, EPM7160S, EPM9320 and EPM9400 devices in 84-pin PLCC packaging using JAM files	AD-84PL-JAM
Altera JAM 100-pin QFP adapter. Suitable for Altera EPM7064S, EPM7096S, EPM7128S and EPM7160S devices in 100-pin QFP packaging using JAM files	AD-100QF-JAM
Altera JAM 100-pin TQFP adapter. Suitable for Altera EPM7064S, EPM7096S, EPM7128S and EPM7160S devices in 100-pin TQFP packaging using JAM files	AD-100TQ-JAM
Altera JAM ISP cable & adapter. Use for ISP programming of all MAX7000S and MAX9000 devices using JAM format files	JAM-BLASTER
MACH 68 PLCC to 40 DIP. For Vantis MACHX2X devices in 68 pin PLCC packaging	AD-68PL-MACHX2X
MACH 84 PLCC to 40 DIP. For Vantis MACHX3X devices in 84 pin PLCC packaging	AD-84PL-MACHX3X
MACH 100 QFP to 40-DIP. For Vantis MACH ISP & M4/M5 devices in 100-pin QFP packaging	AD-100QF-MACH
MACH 100 TQFP to 40-DIP. For Vantis MACH ISP & M4/M5 devices in 100-pin TQFP packaging	AD-100TQ-MACH
MACH 144 QFP to 40-DIP. For Vantis MACH M5 devices in 144-pin QFP packaging	AD-144QF-MACH
MACH 144 TQFP to 40-DIP. For Vantis MACH M5 devices in 144-pin TQFP packaging	AD-144TQ-MACH
MACH 160 QFP to 40-DIP. For Vantis MACH M5 devices in 160-pin QFP packaging	AD-160QF-MACH
MACH 208 QFP to 40-DIP. For Vantis MACH M5 devices in 208-pin QFP packaging	AD-208QF-MACH
MACH 240 QFP to 40-DIP. For Vantis MACH M5 devices in 240-pin QFP packaging	AD-240QF-MACH
XC7200 68 PLCC to 40 DIP. For Xilinx XC7272 devices in 68 pin PLCC packaging	AD-68PL-XC7272
XC7200 84 PLCC to 40 DIP. For Xilinx XC72XX devices in 84 pin PLCC packaging	AD-84PL-XC72XX
XC7300 68 PLCC to 40 DIP. For Xilinx XC7354 devices in 68 pin PLCC packaging	AD-68PL-XC7354
XC7300 68 PLCC to 40 DIP. For Xilinx XC7372 devices in 68 pin PLCC packaging	AD-68PL-XC7372
XC95/7300 84 PLCC to 40 DIP. For Xilinx XC73XX & XC95xx devices in 84 pin PLCC packaging	AD-84PL-XC73XX
DESCRIPTION - Microcontroller PLCC and QFP adapters	ORDER CODE
DS87530 52 PLCC to 40 DIP. Use for Dallas 87C530 devices in 52 pin PLCC packaging	AD-52PL-DS530
87196 68 PLCC to 40 DIP. Use for Intel 87C196KC devices in 68 pin PLCC packaging	AD-68PL-87196KC
P87451 68 PLCC to 40 DIP. Use for Philips/Sigmetics 87C451 devices in 68 pin PLCC packaging	AD-68PL-87451
P87552 68 PLCC to 40 DIP. Use for Philips/Sigmetics 87C552 devices in 68 pin PLCC packaging	AD-68PL-87552
P87592 68 PLCC to 40 DIP. Use for Philips/Sigmetics 87C592 devices in 68 pin PLCC packaging	AD-68PL-87592
PIC16C92X 68 PLCC to 40 DIP. Use for Microchip PIC16C92X devices in 68 pin PLCC packaging	AD-68PL-16C92X
PIC17C75X 68 PLCC to 40 DIP. Use for Microchip PIC17C75X devices in 68 pin PLCC packaging	AD-68PL-17C75X
MC711 52 PLCC to 40 DIP. For Motorola MC68HC711A/E devices in 52 pin PLCC packaging	AD-52PL-711A/E
MC908 52 PLCC to 40 DIP. For Motorola MC68HC908 Flash microcontrollers in 52 pin PLCC packaging	AD-52PL-908
SAB-C508 64 QFP to 40 DIP. Suitable for Infineon/Siemens SAB-C508 parts in 64 pin QFP package	AD-64QF-C508
SAB-C5x5 80 QFP to 40 DIP. Suitable for Infineon/Siemens SAB-C5x5 parts in 80 pin QFP package	AD-80QF-C5X5
ST7 56 SDIP to 48 DIP. For ST Micros ST7 devices in 52-pin Shrink DIP packaging	AD-56SD-48DIP
ST7 42 SDIP to 40 DIP. For ST Micros ST7 devices in 42-pin Shrink DIP packaging	AD-42SD-40DIP
ST7 32 SDIP to 32 DIP. For ST Micros ST7 devices in 28 and 32-pin Shrink DIP packaging	AD-32SD-32DIP
TI 370 68 PLCC to 40 DIP. For Texas Instruments TMS370C756 devices in 68 pin PLCC package	AD-68PL-370C756
TI E14 68 PLCC to 40 DIP. For Texas Instruments TMS320E14 devices in 68 pin PLCC package	AD-68PL-320E14
TI E25 68 PLCC to 40 DIP. For Texas Instruments TMS320E25 devices in 68 pin PLCC package	AD-68PL-320E25

† suitable for use on the GLV-32 Gang programmer.

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