

## List of Special Adapters and Socket Converters (Discontinue)

January, 2019

| P/N             | Description   | Programmer Support |
|-----------------|---|--------------------|
| GDP-F320-56SS   | 56 pin SSOP (Pitch 0.8mm) adapter for Intel 28F320(640)(128)J5/J3 (Open-Top Socket)         | LT-848XP           |
| GDP-SOIC-1602   | 16 pin SOIC (Body Width 150mil, Pitch 1.27mm) adapter for Atmel AT24Cxx (Clam-Shell Socket) | -                  |
| GDP-SOIC-2002   | 20 pin SOIC (Body Width 200mil, Pitch 1.27mm) adapter for Atmel AT24Cxx (Clam-Shell Socket) | -                  |
| LVT-128K18-56U  | 56 pin uBGA (9mm x 11mm, Pitch 0.75mm) adapter for Intel GE28F128K18 (Open-Top Socket)      | LT-48UXP/848XP     |
| LVT-128K18-64E  | 64 pin EBGA (10mm x 13mm, Pitch 1.0mm) adapter for Intel RC28F128K18 (Open-Top Socket)      | LT-48UXP/848XP     |
| LVT-128K3-56U   | 56 pin uBGA (9mm x 11mm, Pitch 0.75mm) adapter for Intel GE28F128K3 (Open-Top Socket)       | LT-48UXP/848XP     |
| LVT-128K3-64E   | 64 pin EBGA (10mm x 13mm, Pitch 1.0mm) adapter for Intel RC28F128K3/640K3 (Open-Top Socket) | LT-48UXP/848XP     |
| LVT-128W18-56U  | 56 pin uBGA (12mm x 12.5mm, Pitch 0.75mm) adapter for Intel GE28F128W18 (Open-Top Socket)   | LT-48UXP/848XP     |
| LVT-128W30-56U  | 56 pin uBGA (12mm x 12.5mm, Pitch 0.75mm) adapter for Intel GE28F128W30 (Open-Top Socket)   | LT-48UXP/848XP     |
| LVT-2240WY-80F  | 80 pin FBGA (8mm x 10mm, Pitch 0.8mm) adapter for Intel RD38FxxxxWY (Open-Top Socket)       | LT-48UXP/848XP     |
| LVT-2240WY-80FC | 80 pin FBGA (8mm x 10mm, Pitch 0.8mm) adapter for Intel RD38FxxxxWY (Clam-Shell Socket)     | LT-48UXP/848XP     |
| LVT-2240WZ-80F  | 80 pin FBGA (8mm x 10mm, Pitch 0.8mm) adapter for Intel RD38FxxxxWZ (Open-Top Socket)       | LT-48UXP/848XP     |
| LVT-2240WZ-80FC | 80 pin FBGA (8mm x 10mm, Pitch 0.8mm) adapter for Intel RD38FxxxxWZ (Clam-Shell Socket)     | LT-48UXP/848XP     |
| LVT-256K18-63VF | 63 pin VFBGA (9mm x 14.5mm, Pitch 0.75mm) adapter for Intel GE28F256K18C (Open-Top Socket)  | LT-48UXP/848XP     |
| LVT-256K18-64E  | 64 pin EBGA (10mm x 15mm, Pitch 1.0mm) adapter for Intel RC28F256K18C (Open-Top Socket)     | LT-48UXP/848XP     |
| LVT-256K3-63VF  | 63 pin VFBGA (9mm x 14.5mm, Pitch 0.75mm) adapter for Intel GE28F256K3C (Open-Top Socket)   | LT-48UXP/848XP     |
| LVT-256K3-64E   | 64 pin EBGA (10mm x 15mm, Pitch 1.0mm) adapter for Intel RC28F256K3C (Open-Top Socket)      | LT-48UXP/848XP     |
| LVT-320D18-56U  | 56 pin uBGA (7.52mm x 13.42mm, Pitch 0.75mm) adapter for Intel 28F320D18 (Open-Top Socket)  | LT-48UXP/848XP     |
| LVT-4050LY-80F  | 80 pin FBGA (8mm x 11mm, Pitch 0.8mm) adapter for Intel RD38F4050LOYB/T (Open-Top Socket)   | LT-848XP           |
| LVT-4050LZ-80F  | 80 pin FBGA (8mm x 11mm, Pitch 0.8mm) adapter for Intel RD38F4050LOZB/T (Open-Top Socket)   | -                  |
| LVT-6408W18-80F | 80 pin FBGA (8mm x 14mm, Pitch 0.8mm) adapter for Intel 28F6408W18 (Open-Top Socket)        | LT-848XP           |

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|-----------------|--|--------------------|
| LVT-6408W30-80F | 80 pin FBGA (8mm x 14mm, Pitch 0.8mm) adapter for Intel 28F6408W30 (Open-Top Socket)                       | LT-48UXP/848XP     |
| LVT-640K18-56U  | 56 pin uBGA (7.7mm x 9mm, Pitch 0.75mm) adapter for Intel GE28F640K18C (Open-Top Socket)                   | LT-48UXP/848XP     |
| LVT-640K3-56U   | 56 pin uBGA (7.7mm x 9mm, Pitch 0.75mm) adapter for Intel GE28F640K3C (Open-Top Socket)                    | LT-48UXP/848XP     |
| LVT-640W18-56U  | 56 pin uBGA (7.7mm x 9mm, Pitch 0.75mm) adapter for Intel 28F320/640/128 W18 (Open-Top Socket)             | LT-48UXP/848XP     |
| LVT-640W30-56U  | 56 pin uBGA (7.7mm x 9mm, Pitch 0.75mm) adapter for Intel 28F320/640 W30 (Open-Top Socket)                 | LT-48UXP/848XP     |
| LVT-ADS323-48TS | 48 pin TSOP (12mm x 20mm, Pitch 0.5mm) adapter for AMD 29DS32x (Open-Top Socket)                           | LT-48UXP/848XP     |
| LVT-MT6428-64F  | 64 pin FBGA (9mm x 11.5mm, Pitch 0.8mm) adapter for Micron MT28C6428P20/P18 (Open-Top Socket)              | LT-848XP           |
| LVT-NEC6411-85F | 85 pin FBGA (8mm x 11mm, Pitch 0.8mm) adapter for NEC uPD29F064115F9 (Open-Top Socket)                     | LT-848XP           |
| LVT-S064J-80F   | 80 pin FBGA (7mm x 9mm, Pitch 0.8mm) adapter for Spansion S71WS064JB0B0FW2Y (Open-Top Socket)              | LT-848XP           |
| LVT-SST400-48WF | 48 pin WFBGA (4mm x 6mm, Pitch 0.5mm) adapter for SST 39WF400A (Clam-Shell Socket)                         | LT-48UXP           |
| LVT-ST432-64F   | 64 pin FBGA (8mm x 12mm, Pitch 0.8mm) adapter for ST M36DR432A/B (Open-Top Socket)                         | LT-848XP           |
| PLCC4428-01     | 44 pin PLCC (Pitch 1.27mm) adapter for AMD MACH 110 / 210 / 215 (Clam-Shell Socket)                        | LT-48UXP           |
| PLCC4428-02     | 44 pin PLCC (Pitch 1.27mm) adapter for Lattice ispLSI1016 / pLSI1016 (Clam-Shell Socket)                   | LT-48UXP           |
| SDP-1800-68     | 68 pin PLCC (Pitch 1.27mm) adapter for Altera EP18xx (Open-Top Socket)                                     | LT-48UXP           |
| SDP-3108-100    | 100 pin QFP (Body Size 14mm x 20mm, Pitch 0.65mm) adapter for Xilinx XC73108 (Clam-Shell Socket)           | LT-48UXP           |
| SDP-3108-84     | 84 pin PLCC (Pitch 1.27mm) adapter for Xilinx XC73108 (Open-Top Socket)                                    | LT-48UXP           |
| SDP-5000-68     | 68 pin PLCC (Pitch 1.27mm) adapter for Atmel ATV5000 (Open-Top Socket)                                     | LT-48UXP           |
| SDP-5128-68     | 68 pin PLCC (Pitch 1.27mm) adapter for Altera EPM5128 (Open-Top Socket)                                    | LT-48UXP           |
| SDP-7272-68     | 68 pin PLCC (Pitch 1.27mm) adapter for Xilinx XC7272/A (Open-Top Socket)                                   | LT-48UXP           |
| SDP-7272-84     | 84 pin PLCC (Pitch 1.27mm) adapter for Xilinx XC7272/A (Open-Top Socket)                                   | LT-48UXP           |
| SDP-7354-68     | 68 pin PLCC (Pitch 1.27mm) adapter for Xilinx XC7354 (Open-Top Socket)                                     | LT-48UXP           |
| SDP-7372-68     | 68 pin PLCC (Pitch 1.27mm) adapter for Xilinx XC7372 (Open-Top Socket)                                     | LT-48UXP           |
| SDP-9S12X-64LQ  | 64 pin LQFP (Body Size 10mm x 10mm, Pitch 0.5mm) adapter for Freescale MC9S12XS64 (Clam-Shell Socket)      | LT-848XP           |
| SDP-A128M-64E   | 64 pin EBGA (11mm x 13mm, Pitch 1.0mm) adapter for AMD 29LV640MH/L, 29LV128MH/L (LAA064) (Open-Top Socket) | LT-48UXP/848XP     |

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| SDP-A642-64E      | 64 pin EBGA (11mm x 13mm, Pitch 1.0mm) adapter for AMD 29LV642D (Open-Top Socket)                         | LT-48UXP/848XP     |
| SDP-AX110-80LQ    | 80 pin LQFP (Body Size 12mm x 12mm, Pitch 0.5mm) adapter for ASIX AX11001/11005 (Clam-Shell Socket)       | LT-848XP           |
| SDP-BL802-56SS    | 56 pin SSOP (Pitch 0.8mm) adapter for AMD 29BL802C/162C (Open-Top Socket)                                 | LT-48UXP           |
| SDP-C374-84       | 84 pin PLCC (Pitch 1.27mm) adapter for Cypress 7C374/373 (Open-Top Socket)                                | LT-48UXP           |
| SDP-d160-48U      | 48 pin FBGA (9mm x 9mm, Pitch 0.8mm) adapter for Samsung KM28DU160T/B (Open-Top Socket)                   | LT-48UXP           |
| SDP-F016-56TS     | 56 pin TSOP (14mm x 20mm, Pitch 0.5mm) adapter for Intel 28F016/032 (Open-Top Socket)                     | LT-48UXP           |
| SDP-F160-56SS     | 56 pin SSOP (Pitch 0.8mm) adapter for Intel 28F160F3 (Open-Top Socket)                                    | LT-48UXP/848XP     |
| SDP-F320-56SS     | 56 pin SSOP (Pitch 0.8mm) adapter for Intel 28F160(320)S3/S5 (Open-Top Socket)                            | LT-48UXP/848XP     |
| SDP-FU160-46SON   | 46 pin SON (10mm x 12mm, Pitch 0.5mm) adapter for Fujitsu MBM29LV160T/B (Open-Top Socket)                 | LT-48UXP           |
| SDP-I008-40U      | 40 pin uBGA (5.74mm x 7.48mm, Pitch 0.75mm) adapter for Intel GT28F008SC/S3/S5 (Open-Top Socket)          | LT-48UXP           |
| SDP-I008-48U      | 48 pin uBGA (6.5mm x 7.91mm, Pitch 0.75mm) adapter for Intel GT28F008B3B/T (Open-Top Socket)              | LT-48UXP           |
| SDP-I016-40U      | 40 pin uBGA (5.74mm x 7.48mm, Pitch 0.75mm) adapter for Intel GT28F016SC/S3/S5 (Open-Top Socket)          | LT-48UXP           |
| SDP-I016-48U      | 48 pin uBGA (7.58mm x 9.81mm, Pitch 0.75mm) adapter for Intel GT28F016B3B/T (Open-Top Socket)             | LT-48UXP           |
| SDP-I160-48U      | 48 pin uBGA (7.58mm x 9.81mm, Pitch 0.75mm) adapter for Intel GT28F160B3B/T (Open-Top Socket)             | LT-48UXP           |
| SDP-I800-48U      | 48 pin uBGA (6.5mm x 7.91mm, Pitch 0.75mm) adapter for Intel GT28F800B3B/T (Open-Top Socket)              | LT-48UXP           |
| SDP-M160-48U      | 48 pin uBGA (7mm x 8mm, Pitch 0.75mm) adapter for Micron 28F160A3, C3FD (Open-Top Socket)                 | LT-48UXP/848XP     |
| SDP-M5-100Q(CIC)  | 100 pin QFP (Body Size 14mm x 20mm, Pitch 0.65mm) adapter for AMD MACH5(LV)-xxx/68                        | LT-48UXP           |
| SDP-M5-100TQ(CIC) | 100 pin TQFP (Body Size 14mm x 14mm, Pitch 0.5mm) adapter for AMD MACH5(LV)-xxx/68                        | LT-48UXP           |
| SDP-M5-144QF(CIC) | 144 pin TQFP (Body Size 28mm x 28mm, Pitch 0.65mm) adapter for AMD MACH5(LV)-xxx/104                      | LT-48UXP           |
| SDP-M5-160QF(CIC) | 160 pin PQFP (Body Size 28mm x 28mm, Pitch 0.65mm) adapter for AMD MACH5(LV)-xxx/120                      | LT-48UXP           |
| SDP-M5-208Q(CIC)  | 208 pin PQFP (Body Size 28mm x 28mm, Pitch 0.5mm) adapter for AMD MACH5(LV)-xxx/160                       | LT-48UXP           |
| SDP-UNIV-20SO     | 20 pin SOIC (Body Width 300mil, Pitch 1.27mm) universal adapter for 16-20 pin SOIC (Clam-Shell Socket)    | LT-48UXP           |
| SDP-UNIV-28SO/330 | 28 pin SOIC (Body Width 330mil, Pitch 1.27mm) universal adapter (Clam-Shell Socket)                       | LT-48UXP           |
| SDP-UNIV-40TS/W   | 40 pin TSOP (10mm x 14mm, Pitch 0.5mm) universal adapter for 40 pin TSOP Flash memory (Clam-Shell Socket) | LT-48UXP/848XP     |

| P/N          | Description  | Programmer Support |
|--------------|--|--------------------|
| SDP-X740-68  | 68 pin PLCC (Pitch 1.27mm) adapter for Altera EPX740 / Intel iFX740 (Open-Top Socket)                            | LT-48UXP           |
| SDP-X780-84  | 84 pin PLCC (Pitch 1.27mm) adapter for Altera EPX780 / Intel iFX780 (Open-Top Socket)                            | LT-48UXP           |
| TM-I640-56SS | 56 pin SSOP (Pitch 0.8mm) adapter modules for Intel 28F640/128J3 (Open-Top Socket)                               |                    |
| TM-S512-64E  | 64 pin EBGA (11mm x 13mm, Pitch 1.0mm) adapter modules for Spansion S29GL512N11FFIS20 (LAA064) (Open-Top Socket) | LT-T400            |
| TM-SOIC-2002 | 20 pin SOIC (Body Width 200mil, Pitch 1.27mm) adapter modules for Winbond W25X40A / W25X80A (Clam-Shell Socket)  | LT-T400            |

**Phase Out**