

DEV KITS & CARDS

Boards & Kits

Programming Adapters

The adapters that should be used with the Altera Programming Unit (APU) or the PL-ASAP2/PL-MPU programmer to program Altera® devices are listed in Table 1.

Table 1. Altera Programming Adapters

Device	Package	Adapter
EPC1064 (2) EPC1064V (2) EPC1441 (3)	PDIP (7) (8-pin) J-lead (20-pin) TQFP (8) (32-pin)	PLMJ1213 PLMT1064
EPC1 (3) EPC1213 (2)	PPDIP (8-pin) J-lead (20-pin)	PLMJ1213
EPC2 (4)	J-lead (20-pin) TQFP (32-pin)	PLMJ1213 PLMT1064
EPC4 (4) EPC8 (4) EPC16 (4)	Ultra FineLine BGA™ (9) (88-pin) PQFP (100-pin)	PLMUEPC-88 PLMQEPC-100
EPCS1 (5) EPCS4 (5)	SOIC (10) (8-pin)	PLMSEPC-8
EPM7032AE	J-lead (44-pin) TQFP (44-pin)	PLMJ7000-44 PLMT7000-44
EPM7064AE	J-lead (44-pin) TQFP (44-pin) TQFP (100-pin) FineLine BGA (100-pin)	PLMJ7000-44 PLMT7000-44 PLMT7000-100NC (6) PLMF7000-100
EPM7128A EPM7128AE	J-lead (84-pin) PQFP (100-pin) TQFP (100-pin) TQFP (144-pin) PQFP (160-pin) FineLine BGA (100-pin) FineLine BGA (256-pin)	PLMJ7000-84 PLMQ7000-100NC (6) PLMT7000-100NC (6) PLMT7000-144NC (6) PLMQ77128/7160-160NC (6) PLMF7000-100 PLMF7000-256
EPM7256A EPM7256AE	TQFP (100-pin) TQFP (144-pin) PQFP (208-pin) RQFP (208-pin) FineLine BGA (100-pin) FineLine BGA (256-pin)	PLMT7000-100NC (6) PLMT7000-144NC (6) PLMR7256-208NC (6) PLMT7256-208NC (6) PLMF7000-100 PLMF7000-256
EPM7512AE	TQFP (144-pin) PQFP (208-pin) BGA (256-pin) FineLine BGA (256-pin)	PLMT7000-144NC (6) PLMR7256-208NC (6) PLMB7000-256 PLMF7000-256
EPM3032A	J-lead (44-pin) TQFP (44-pin)	PLMJ3000-44 PLMT3000-44
EPM3064A	J-lead (44-pin) TQFP (44-pin) TQFP (100-pin)	PLMJ3000-44 PLMT3000-44 PLMT3000-100NC (6)

EPM3128A	TQFP (100-pin) TQFP (144-pin)	PLMT3000-100NC (6) PLMT3000-144NC (6)
EPM3256A	TQFP (144-pin) PQFP (208-pin)	PLMT3000-144NC (6) PLMQ3256-208NC (6)

Notes to Table 1:

- 1. Refer to the [Altera Programming Hardware Data Sheet](#) for device adapter information on Classic™ devices.
- 2. FLEX® 8000 configuration device.
- 3. FLEX 10K®, FLEX 8000, or FLEX 6000 configuration devices.
- 4. Stratix™, Mercury™, APEX™ II, APEX 20K, FLEX 10K, ACEX® 1K configuration devices or the Excalibur™ embedded processor.
- 5. Cyclone configuration device
- 6. These devices are not shipped in carriers.
- 7. PDIP = plastic dual in-line package
- 8. TQFP = thin quad flat pack
- 9. BGA = ball-grid array
- 10. SOIC = small-outline integrated circuit

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