

### FEATURES

- Master programming unit for all Altera EPLDs.
- Directly supports Altera EP310, EP320, EP1200, and EP1210 DIP EPLDs.
- Optionally supports all other EPLDs via plug-in adaptors.
- Fully compatible with Altera Programming Card.
- Zero-Insertion-Force sockets for easy device insertion and extraction.
- Indicator LED shows when unit is active.

### PLE3-12 PROGRAMMING SUPPORT

The PLE3-12 directly programs EP300, EP320, EP1200, and EP1210 devices. The PLE3-12 can program other devices with optional programming adaptors. Refer to the PLED/J/G datasheet for a complete list of adaptors.

### ORDERING INFORMATION

Order by product number: PLE3-12

**Note: PLE3-12A units are functionally identical to PLE3-12 units, but additionally support the programming of MAX EPLDs.**

### GENERAL DESCRIPTION

The Altera PLE3-12 Master Programming Unit is a hardware module capable of programming all Altera EPLDs. The PLE3-12 is designed to interface only with the Altera PC-based programming card. This programming card (included in a PLDS2 or PLCAD system) generates all programming waveforms and voltages. Thus, the PLE3-12 requires no additional power supply.

The PLE3-12 contains both a 20 pin (300 mil) and 40 pin (600 mil) zero-insertion-force sockets. The unit includes a 30 inch ribbon cable terminated with a 25 pin D-type connector. Programming information is transmitted from the Altera Programming card (located in any full expansion slot of the PC) through the ribbon cable to the PLE3-12 programming unit. A programming indicator lamp is illuminated when the unit is active.

The PLE3-12 directly supports the EP310, EP320, EP1200, and EP1210 EPLDs (DIP packages only). The module also serves as the base unit for programming all other Altera EPLDs. Programming adaptors supporting each EPLD (DIP, J-Lead, and PGA packages) plug directly into the PLE3-12 module.

Current PLE3-12 units shipped in all PLE3-12, PLDS2, PLDS-SAM, PLDS-MAX, PLDS-MCMAP, PLCAD-SUPREME, or PLDS-ENCORE orders are marked PLE3-12A.

