5. Reference and Ordering Information

Software

Cyclone® devices are supported by the Altera® Quartus® II design software, which provides a comprehensive environment for system-on-a-programmable-chip (SOPC) design. The Quartus II software includes HDL and schematic design entry, compilation and logic synthesis, full simulation and advanced timing analysis, SignalTap® II logic analysis, and device configuration.

For more information about the Quartus II software features, refer to the *Quartus II Handbook*.
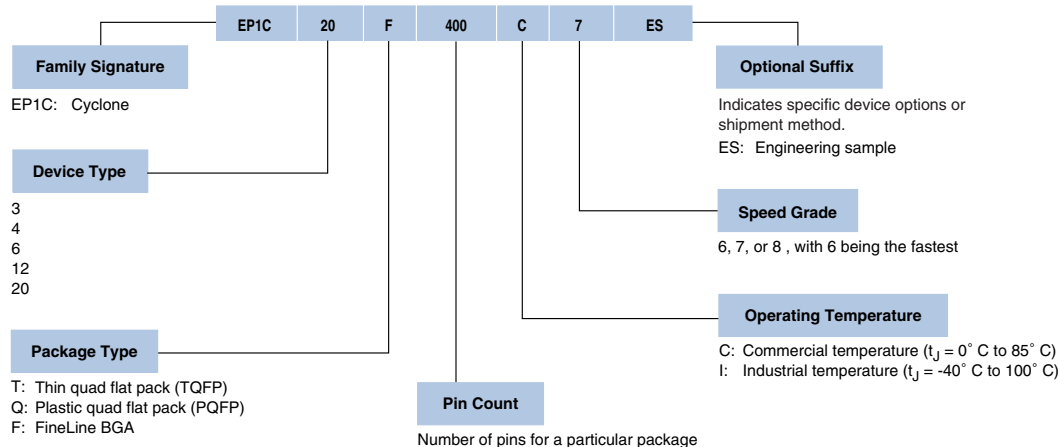
The Quartus II software supports the Windows 2000/NT/98, Sun Solaris, Linux Red Hat v7.1 and HP-UX operating systems. It also supports seamless integration with industry-leading EDA tools through the NativeLink® interface.

Device Pin-Outs

Device pin-outs for Cyclone devices are available on the Altera website (www.altera.com) and in the *Cyclone Device Handbook*.

Ordering Information

Figure 5–1 describes the ordering codes for Cyclone devices. For more information about a specific package, refer to the *Package Information for Cyclone Devices* chapter in the *Cyclone Device Handbook*.

Figure 5–1. Cyclone Device Packaging Ordering Information

| EP1C | 20 | F | 400 | C | 7 | ES |

Family Signature

EP1C: Cyclone

Device Type

3
4
6
12
20

Package Type

T: Thin quad flat pack (TQFP)
Q: Plastic quad flat pack (PQFP)
F: FineLine BGA

Pin Count

Number of pins for a particular package

Optional Suffix

Indicates specific device options or
shipment method.
ES: Engineering sample

Speed Grade

6, 7, or 8 , with 6 being the fastest

Operating Temperature

C: Commercial temperature (t_J = 0˚ C to 85˚ C)
I: Industrial temperature (t_J = -40˚ C to 100˚ C)

Referenced Documents

This chapter references the following documents:

■ *Package Information for Cyclone Devices* chapter in the *Cyclone Device Handbook*
■ *Quartus II Handbook*

Document Revision History

Table 5–1 shows the revision history for this chapter.

Table 5–1. Document Revision History

Date and Document Version	Changes Made	Summary of Changes
May 2008 v1.4	Minor textual and style changes. Added "Referenced Documents" section.	—
January 2007 v1.3	Added document revision history.	—
August 2005 v1.2	Minor updates.	—

February 2005 v1.1	Updated Figure 5-1.	—
May 2003 v1.0	Added document to Cyclone Device Handbook.	—