

MAX[®] II

System Configuration Power-Up Sequencing



I/O Expansion

Interface Bridging

MiniMAX Quick Start Guide

MiniMAX is an interactive demonstration tool that showcases the MAX[®] II CPLDs. It demonstrates common MAX II CPLD applications such as system configuration, power-up sequencing, I/O expansion, and interface bridging. MiniMAX also displays MAX II device features such as low power, instant-on, the on-chip internal oscillator, and the user flash memory—all without batteries!

Step 1. Powering MiniMAX

MiniMAX is powered by 10F storage capacitors, not batteries. Before using MiniMAX for the first time, or after a dormant period, you'll need to charge it. To begin, connect the MiniMAX USB cable to your computer's USB port. The minimum charge time is about 1 minute for MiniMAX to wake up, and 4 minutes to achieve maximum charge on the storage capacitors. For continuous usage, keep MiniMAX connected to the USB port. You can also operate MiniMAX unplugged for about 15 minutes of active portable usage. MiniMAX will automatically power down if inactive for more than 10 seconds.



Step 2. Using MiniMAX

Pressing any of the four MAX II application buttons—**Feature Movie**, **Instant-On Demo**, **Temperature Demo**, and **Game Demo**—will start a slideshow describing the application, along with a demonstration or game. You can use the < > buttons around the Game Demo button to advance the slides more quickly or repeat a slide.

Step 3. Getting More Information on MiniMAX

Go to the Altera® MiniMAX website (www.altera.com/minimax) for MiniMAX schematics, application notes, slideshow development software, the latest MiniMAX user tips, and other new and updated information.



Step 4. Customizing MiniMAX

You can create new MiniMAX content using the MAXPoint development software. MAXPoint is a utility for editing, creating, and downloading new slideshows to MiniMAX. Use MAXPoint for simple tasks such as adding an electronic business card at the front of each slideshow, or for more ambitious tasks like creating animated slideshows. Download MAXPoint from the MiniMAX website.

Note: Altera's Quartus® II design software is not needed to use the MAXPoint tool or to make changes to the MiniMAX slideshows.



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