

[Products](#) > [Development Kits & Boards](#) > iCEblink40HX1K Eval Kit

iCEblink40HX1K Evaluation Kit

Related Products

[iCE40 LP/HX/LM](#)

[iCEcube2](#)

[iCEblink40LP1K Eval Kit](#)

[iCEprog Desktop Programmer](#)

[iCEstick Evaluation Kit](#)

A low-cost platform for evaluating and developing with the low-power iCE40HX1K FPGA. The board provides access to general-purpose I/O and includes capacitive-touch buttons and LEDs. The board is powered and programmed via USB. An on-board microcontroller enables two-way communication with the iCE40HX1K FPGA.

The free iCEcube2™ development tool controls programming, accesses virtual I/O functions, and runs the included demos. iCEcube2 can be downloaded from the Lattice website.

Buy Now

Features

- High-performance, low-power iCE40HX1K FPGA in a 100-pin TQFP package
- USB programming, debugging, virtual I/O functions and power supply
- Four user LEDs
- Four capacitive-touch buttons
- 3.3 MHz clock source
- 1Mbit SPI serial configuration PROM
- Supported by iCEcube2 design software
- 68 LVCMOS/LVTTL (3.3V) digital I/O connections on 0.1" through-hole connections
- Supports third-party I/O expansion boards and modules, including 3.3V Arduino Shield boards (requires additional sockets, not supplied)

[Kit Contents](#) [Board Photos](#) [Ordering Information](#) [Documentation](#) [Support](#)

Kit Contents

- iCEblink40 HX1K Board
- USB Mini Cable for power & programming
- QuickStart Guide

Board Photos



Top View

[Click image to enlarge](#)



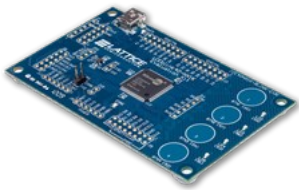
[Expand Image](#)



Bottom View

[Click image to enlarge](#)

[Expand Image](#)



Side View

[Click image to enlarge](#)

[Expand Image](#)

Ordering Information

- Ordering Part Number: ICE40HX1K-BLINK-EVN
- [Click here](#) to find an authorized Lattice distributor near you
- [Click here](#) to order now from the Lattice Online Store

Documentation

Quick Reference

User Manual

Downloads

[Design File](#)

		TITLE ▾	NUMBER ▾	VERSION ▾	DATE ▾	FORMAT ▾	SIZE
		CapSense Demo for iCEblink40 Evaluation Kits - User's Guide ↗	UG64	1.0	10/17/2012	PDF	2.1 MB
		iCEblink40-HX1K Evaluation Kit User's Guide ↗ Describes the features and functionality of the board, including schematics.	EB73	01.1	9/18/2012	PDF	3.2 MB
		iCEblink40-HX1K QuickStart Guide ↗	QS015		5/4/2012	PDF	3.3 MB
		Select All	Notify Me of Changes		Download Selected as Zip File		

Support

Technical Support

Need Help? We're Here to Assist You

Licensing

Find The Software & IP Licenses You

Quality & Reliability

Reference Material to Help Answer

Services

Outside Services to Help Get The Job

- [Hot Topics](#)

■ [Get Technical Support](#)

■ [Design Software](#)
- Need

■ [Lattice Software Licenses](#)

■ [More Licensing Information](#)

■ [Lattice IP Core Licensing](#)
- Your Questions

■ [Quality & Reliabilty Home](#)

■ [Product Change Notifications \(PCNs\)](#)
- Done

■ [Design Services](#)

■ [Third-Party Programming Support for Lattice Devices](#)

■ [Training](#)

About Us

- [Press Room](#)
- [Investor Relations](#)
- [Careers](#)

Sales

- [Americas](#)
- [Europe & Africa](#)
- [Asia Pacific](#)
- [Online Store](#)

Support

- [Technical Support](#)
- [Software Licensing](#)
- [Services](#)
- [Legacy Devices & Software](#)

