Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

National Instruments

LabVIEW Physical Computing Kit with chipKIT WF32
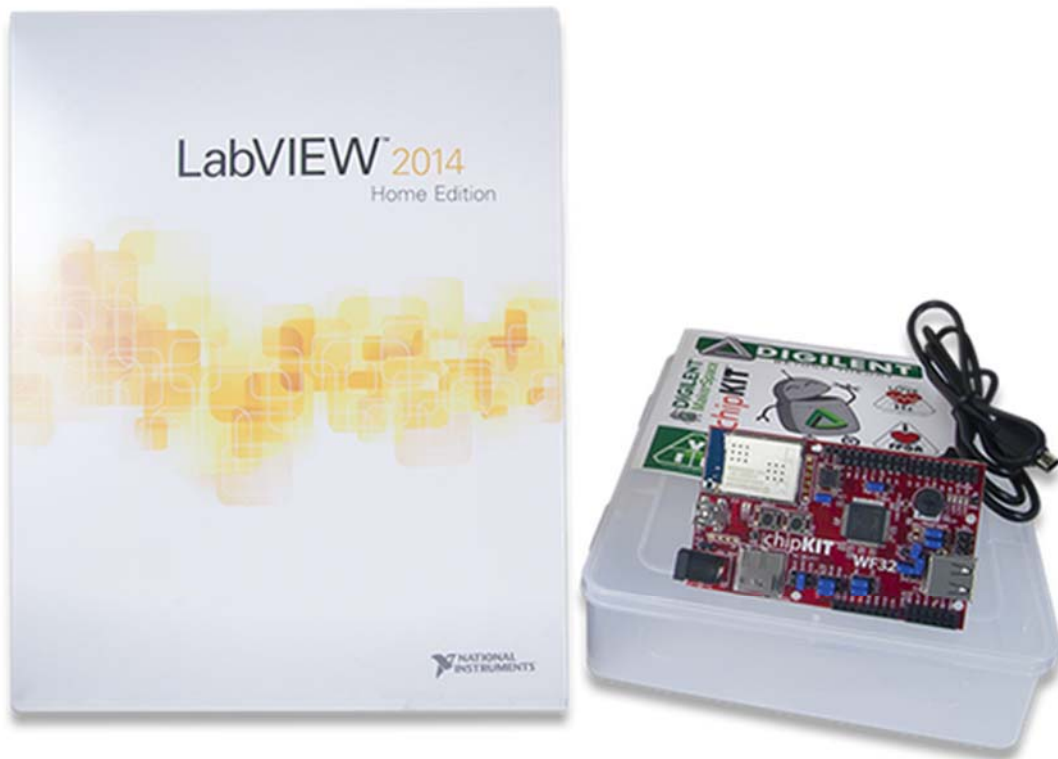
The LabVIEW Physical Computing Kit includes the 32-bit version of LabVIEW Home and is compatible with Windows 10/8.1/8/7/Vista/XP (32-bit and 64-bit). Not compatible with OS X.

LabVIEW is a graphical programming platform used for data acquisition & analysis, instrument control, prototyping and more. LabVIEW Home Bundle has made this powerful software affordable for makers and students. But what if you want to connect your LabVIEW projects to the physical world?

That's why we've created the Physical Computing Kit. This kit, combined with LabVIEW Home Bundle, gives you an inexpensive yet versatile way to connect to the outside world.

What's in the kit?
The Physical Computing Kit comes with:

- chipKIT™ WF32 microcontroller board
- Handy project box w/ sticker sheet
- USB A to Mini-B cable

We selected the WF32 because of its extensive onboard capabilities. It has a WiFi module that lets you communicate with a world of wireless devices, a Micro SD card slot for reading & storing large amounts of data, and a USB 2.0 controller for power, configuration, and your own USB applications. But that's just the beginning, because you'll also have access to the WF32's 43 available I/O pins. Connect whatever sensors, displays, controls, peripherals, etc. you like and LabVIEW Home will be able to use them.

Experiment without Breadboarding

Suppose you wanted to take measure ambient light with a photocell, then turn another light on when the sensor reading drops below a certain threshold. (Commonly known as a 'dusk-to-dawn' circuit.)
With LabVIEW Home, there's no need to wire up sensors, potentiometers, resistors, etc. on a breadboard. LabVIEW Home becomes the breadboard, allowing you to create a block diagram graphically.

In other words, *you don't need to learn physical circuits in order to create useful experiments & projects.*

You'll also be able to quickly create your own graphical user interfaces. Does your project need switches, buttons, dials, numeric displays, or more? You'll be able to choose from hundreds of controls, graphs, and 3D visualization tools, then simply drag-and-drop them into place.
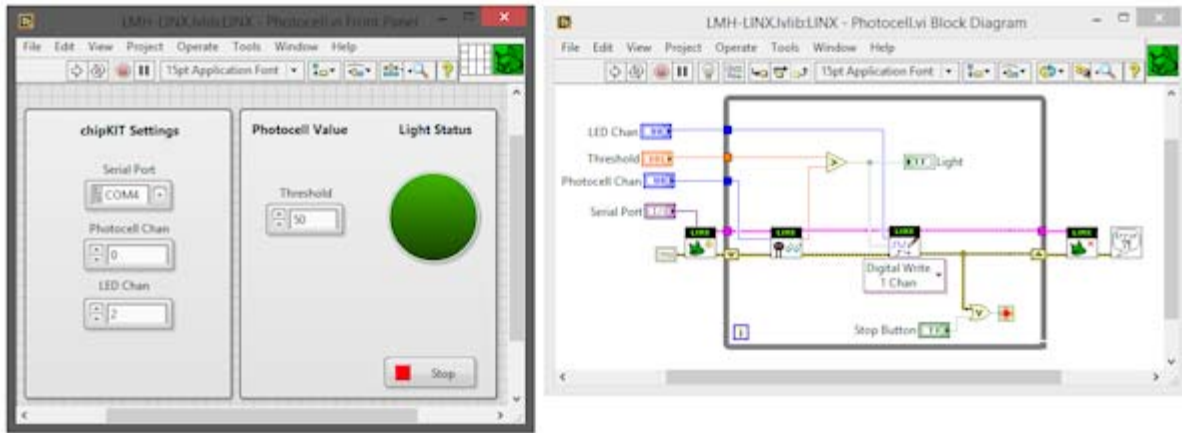
In LabVIEW, you can design your project's block diagram & graphical interface, all at once.

Now, imagine you want to expand your design. For instance, maybe you want to add a high / low temperature range or a digital temperature display. On a breadboard, it would mean adding parts, rewiring, testing, etc. In LabVIEW, experimentation like this is much, much more efficient.

Need help getting started?
You'll find a growing collection of tutorials and examples at LabVIEW MakerHub, including:

https://www.labviewmakerhub.com/

- A tutorial series for users new to LabVIEW and its interface
  https://www.labviewmakerhub.com/doku.php?id=learn:tutorials:labview:basics
- A tutorial series specifically for the Physical Computing Kit
  https://www.labviewmakerhub.com/doku.php?id=learn:tutorials:labview:basics

These tutorials can walk you through an introduction to the LabVIEW interface, programming examples, setting up your WF32 for connection, connecting to I/O, datalogging, and WiFi connectivity.