

– Guides

Quick Start Guide

(/ci40/guides/quick-start-guide)

Hardware

(/ci40/guides/hardware)

OpenWrt Platform

(/ci40/guides/openwrt-platform)

Creating Applications

(/ci40/guides/creating-applications)

Example Applications

(/ci40/guides/example-applications)

– Creator IoT Kit

IoT Kit Summary

(/ci40/iotkit/iot-kit-summary)

Workshop 1 SwitchCounter

(/ci40/iotkit/workshop-1-switchcounter)

Workshop 2 RemoteRelay

(/ci40/iotkit/workshop-2-remoterelay)

Workshop 4 TemperatureLogger

(/ci40/iotkit/workshop-4-temperaturelogger)

IoT Kit Summary

Ci40 IoT Kit Contents

Reference projects

Further projects

Introducing the Ci40 IoT Kit



Welcome to the Creator Ci40 IoT kit! We put the kit together as a platform for developers to quickly build IoT projects. The backbone of the Ci40 IoT kit is communication over the 802.15.4 6LoWPAN standard, we believe this offers a great balance between power to operate, range between devices and a well suited to IoT applications is a great basis for the majority of IoT projects.

The kit is constructed around the premise of facilitating quick development of IoT products and systems, something we believe is highly desirable for those looking to build their own solution to a problem as well as industrial users who need to put a prototype together quickly. All of the development boards implement MikroBus sockets to allow the use of Click plug in boards for easy customisation of the hardware to add the sensors, controllers, etc that you need to complete the project you're working on.

Ci40 IoT Kit Contents

The Creator Ci40 IoT kit contains

- 1x Creator Ci40 (<https://docs.creatordev.io/ci40/guides/hardware>)
- 2x MikroElektronika 6LoWPAN Clicker boards
- 3x MikroElektronika Click boards (Relay Click (<http://www.mikroe.com/click/relay/>), Motion Click (<http://www.mikroe.com/click/motion/>), ThermoClick (<http://www.mikroe.com/click/thermo3/>))
- 1x Micro USB cable
- 1x Accessory bag containing
 - 4x Ci40 stand-off mounts
 - 2x 5 pin headers for optional connection of mikroProg connector to the Clicker boards

Reference projects

We've put together a series of projects to support the Ci40 IoT kit. These cover the fundamentals of working with the IoT framework to build a new IoT project, the process of building and loading code onto the development boards.

All of our code is open source and available from our GitHub Organisation (<https://github.com/CreatorDev>), and all of the projects have documentation through the setup process. We welcome and encourage the use of our code to kick start your development process and to evolve into new and interesting projects. Licensing of all of our examples is open to allow you to reuse the code.

If you want to find specific information about working with either the Ci40 board or the MikroElektronika 6LoWPAN clicker boards then you'll find the software documentation specific to each board by following the top level links on this docs.creatordev.io (<https://docs.creatordev.io>) website.

Further projects

- Guides



Quick Start Guide
(/ci40/guides/quick-start-guide)



Hardware
(/ci40/guides/hardware)

OpenWrt Platform
(/ci40/guides/openwrt-platform)

Creating Applications
(/ci40/guides/creating-applications)

Example Applications
(/ci40/guides/example-applications)

- Creator IoT Kit

IoT Kit Summary
(/ci40/iotkit/iot-kit-summary)

Workshop 1 SwitchCounter
(/ci40/iotkit/workshop-1-switchcounter)

Workshop 2 RemoteRelay
(/ci40/iotkit/workshop-2-remoterelay)

Workshop 4 TemperatureLogger
(/ci40/iotkit/workshop-4-temperaturelogger)

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We love reading over and running our own instances of projects built Projects can be logged and hosted on a number of platforms, our fav because of the great overview it provides between parts lists, backgr source code hosts, and images or videos posted online. Take a look : (https://www.hackster.io/creator) area of hackster.io for projects tag platforms.

Ci40 IoT Kit Contents

Reference projects

Further projects