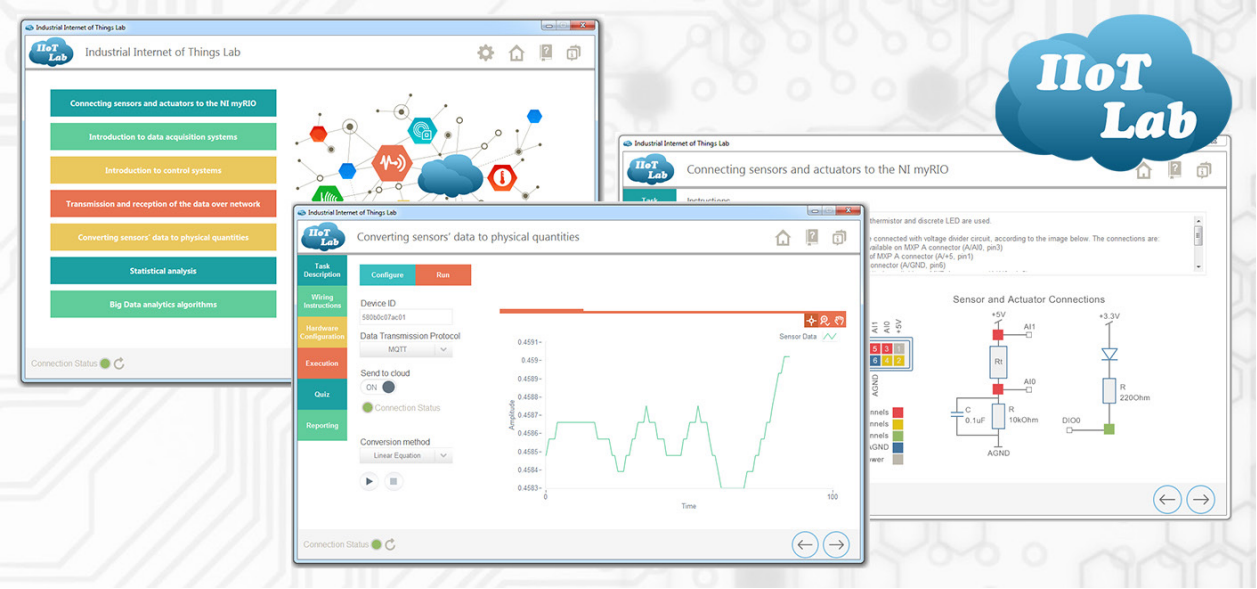
Industrial IoT Lab. Basic Version



Overview

The IoT links smart objects to the Internet. It can enable an exchange of data never available before, and bring users information in a more secure way. Industrial IoT is when the Internet and networks expand to places, such as manufacturing floors, energy grids, healthcare facilities, and transportation.

Industrial devices, such as sensors, actuators, embedded controllers, are being connected to the internet allowing online and remote control and monitoring.

The purpose of the IIoT kit is to provide software and hardware platform for learning the concepts of the IIoT.

This IIoT kit is based on National Instrument's myRIO embedded device.

As a cloud technology the IIoT lab is using ThingWorx from PTC, and IBM Watson platforms.

The training kit includes comprehensive user manual describing creation of things in different cloud platforms, as well as detailed instructions for the hands-on labs.

Features

- Various labs, which cover different aspects of Industrial IoT
- Labs include exercises on alarming and monitoring systems, etc.
- User-friendly interface allows easy study and understanding of IoT hardware and software concepts
- Based on NI myRIO hardware platform
- User Manual with courses and exercise instructions
- Does not require any programming environment availability or knowledge to start using the software and doing the courses

List of labs

- Connecting sensors and actuators to the NI myRIO
- Introduction to data acquisition systems
- Introduction to control systems
- Methods of converting sensor's data to physical quantities
- Statistical analysis

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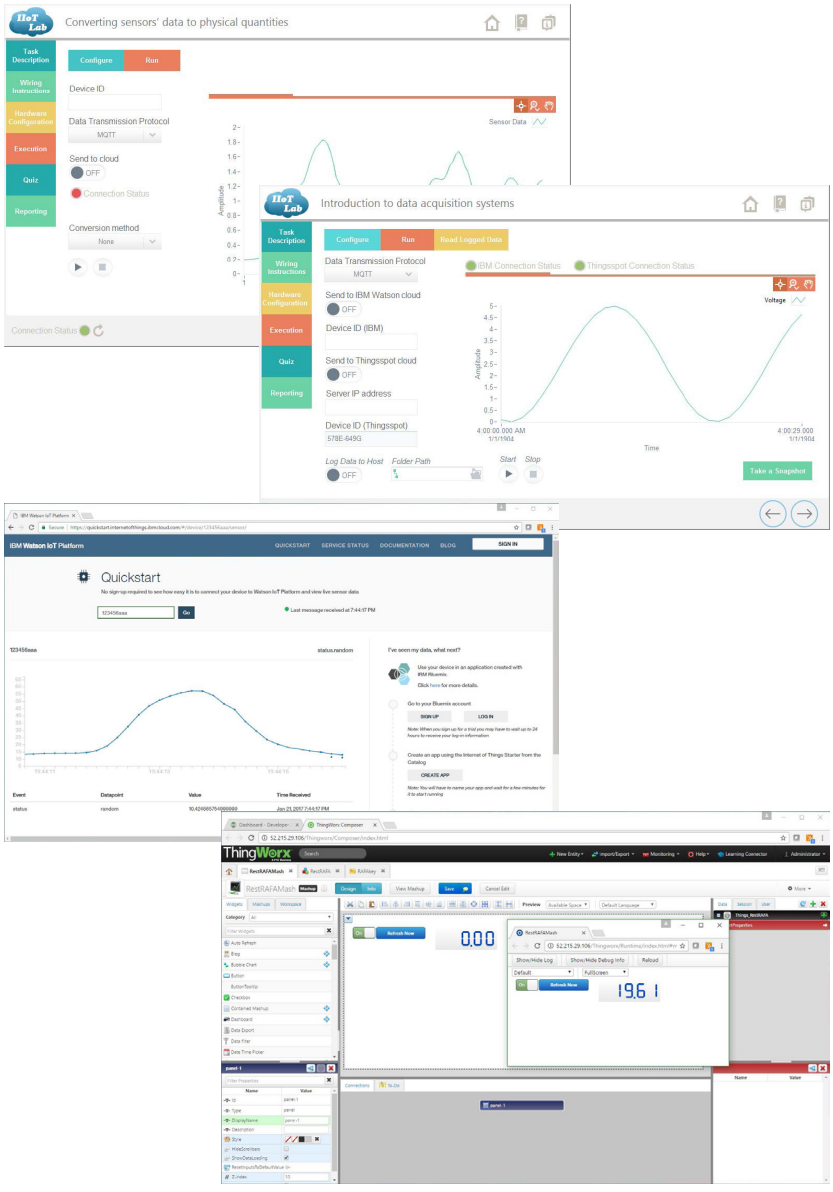
Hardware and Software

- NI myRIO-1900 or NI myRIO-1950
- NI myRIO Starter Accessory Kit
- NI myRIO Mechatronics Kit
- License of PTC ThingWorx platform



IIoT Lab screenshots