Grove Starter Kit for LinkIt ONE
User Manual

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Wiki: http://www.seeedstudio.com/wiki/Grove_-_Starter_Kit_for_LinkIt_ONE

Bazaar: http://www.seeedstudio.com/depot/Grove-Starter-Kit-for-LinkIt-ONE-p-2028.html?cPath=84_13

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Contents

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1. Introduction

Grove - Starter Kit for LinkIt ONE is a toolkit for building your applications quicker and easier with LinkIt ONE development platform. With this kit, you can concentrate just on design process for your projects which will save you lots for time or expenses. It consist of the most popular modules for build IoT (Internet of Things) applications such as Base Shield.

2. Features

- Minimize efforts for your applications on LinkIt ONE platform.

- Make building process of your projects easier.

- Cut down your expense by including typical and popular modules.

3. Specification

Please refer to each modules' specifications:

- Grove - Dust Sensor

- Grove - Temperature and Humidity Sensor Pro

- Grove - Sound Sensor

- Grove - UV Sensor

- Grove - Barometer Sensor

- Grove - Light Sensor

- Grove - 3-Axis Digital Accelerometer(±16g)

- Grove - LED Bar

- Grove - Servo

- Grove - Touch Sensor

- Grove - Base shield v2

4. Application ideas

You can build secret box and other funny applications.

Note that the ideas listed in this section is only some clues to this kit's massive applications.

5. Hardware Overview

Grove Touch Sensor

This "button" can sense the touch of your fingers.

Grove Sound Sensor

This is a sensor to evaluate the intensity of sound.

Grove Light Sensor

This is a sensor that detects the change of light.

Grove Servo

This is an actuator whose position can be precisely controlled.

Grove Dust Sensor

This sensor can measure air quality.

Grove Temperature & Humidity Sensor Pro

It has more complete and accurate performance than the basic version. The detecting range of this sensor is 5% RH - 99% RH, and -40° C - 80° C.

Grove UV Sensor

This sensor is used for detecting the intensity of incident ultraviolet (UV) radiation.

Grove Barometer

This sensor can is used for detecting the atmospheric pressure and temperature.

Grove 3-Axis Digital Accelerometer (±16g)

This is a high resolution digital accelerometer providing you at max 3.9mg/LSB resolution and large

±16g measurement range.

Grove Led Bar

Grove LED Bar is comprised of a 10 segment LED, you can use it as an indicator.

Grove Base Shield

Base Shield is an interface between Arduino and Grove modules. There are 16 Grove sockets on the base shield, whichcan be divided into three deferent functional areas: digital ports (8), analog ports (4), and I2C ports (4).

6. Get started

Note that this section only shows you how to build basic development environment.

Guide on build basic development environment for LinkIt ONE.

7. Resources

- Manual for Grove Starter Kit for LinkIt ONE

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