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Grove Kit for Win10 IoT Core & Azure Platform

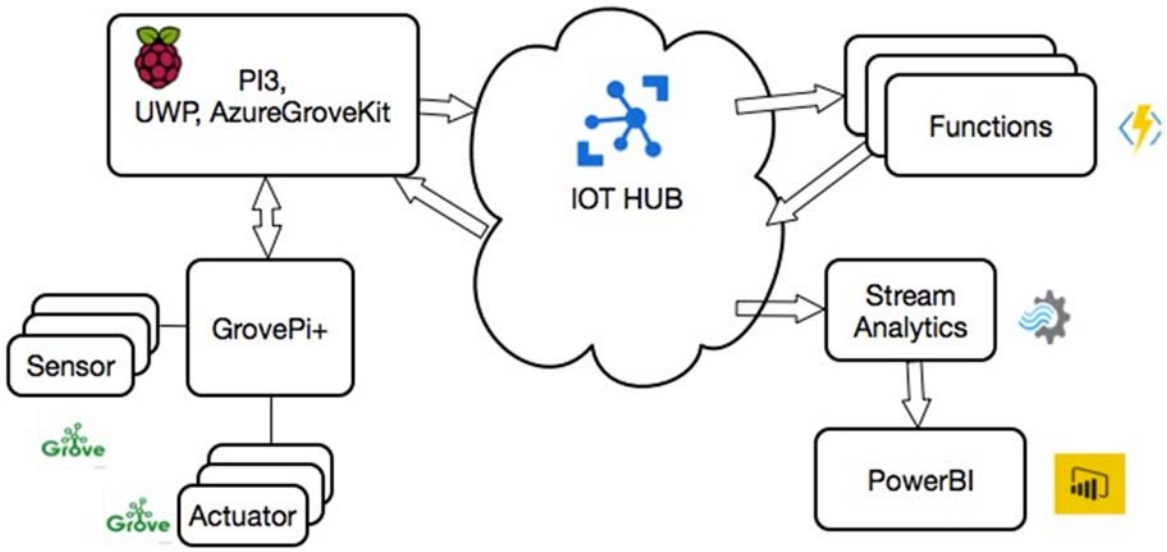
SKU 110060742

Description

Grove Kit for Win10 IoT Core & Azure Platform is an IoT development kit which contains some Grove hardware module and designed for Microsoft Azure services.

Unlike traditional Grove Getting Started kit, this kit does not concerned with how to write hardware driver or embedded development, but helps you quickly understand and learn how to use Windows 10 IoT Core and Microsoft Azure services. And We wrote a guide book for this Grove kit which included five projects with separate scenario.

Architecture diagram:



Features:

- A guide book for five scenarios
- Support Azure IoT Hub and Azure Functions
- Based on Raspberry Pi and Windows 10 IoT Core

Scenarios:

Scenario 1: Don't catch cold

Check the value of the temperature and humidity sensor. And then tell you not to catch cold when it low.

Scenario 2: Sound&Light and relay

When the Sound or Light sensor is greater than a value triggers the Microsoft Azure Function for relay sensor, then Function connects to the Maker channel of the IFTTT.

Scenario 3: GAS monitor

Gas send data to Azure, if CO‘s value exceeded, triggering exception Microsoft Azure Function, send eamil to the user, as well as opening mini fan.

Scenario 4: One-Click SOS

Button triggers an SOS event, Microsoft Azure Function sends an email or a call to a family.

Scenario 5: Human detector

PIR sensor sends human motion events to Microsoft Azure IoT Hub, within half an hour PIR triggers more than three times, recording this and then send a statistical report to PowerBI.

Technical Details

Weight	G.W 284g
Battery	Exclude
Connect map between Grove and GrovePi:	
Grove	GrovePi Port
D2	Grove - Temp&Humi Sensor

D3	Grove - PIR Motion Sensor
D4	Grove – Button
D5	Grove - Relay
A0	Grove - Sound Sensor
A1	Grove - Light Sensor
A2	Grove - Gas Sensor
I2C1	Grove - OLED Display 0.96"
I2C2	Grove - Mini I2C Motor Driver

Part List

GrvoePi+	1
Grove - Temp&Humi Sensor	1
Grove - PIR Motion Sensor	1
Grove - Sound Sensor	1
Grove - Light Sensor v1.2	1
Grove - Gas Sensor(MQ2)	1
Grove - Button	1
Grove - Button	1

Grove - OLED Display 0.96"	1
Grove - 4 Digit Display	1
Grove - Mini I2C Motor Driver v1.0	1
DC Motor	1
Mini Fan	1

https://www.seeedstudio.com/Grove-Kit-for-Win10-IoT-Core-%26-Azure-Platform-p-2928.html 9-7-17