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Power Bank Solution

LC709511A05GEVB Quick Guide

Mar 9, 2017



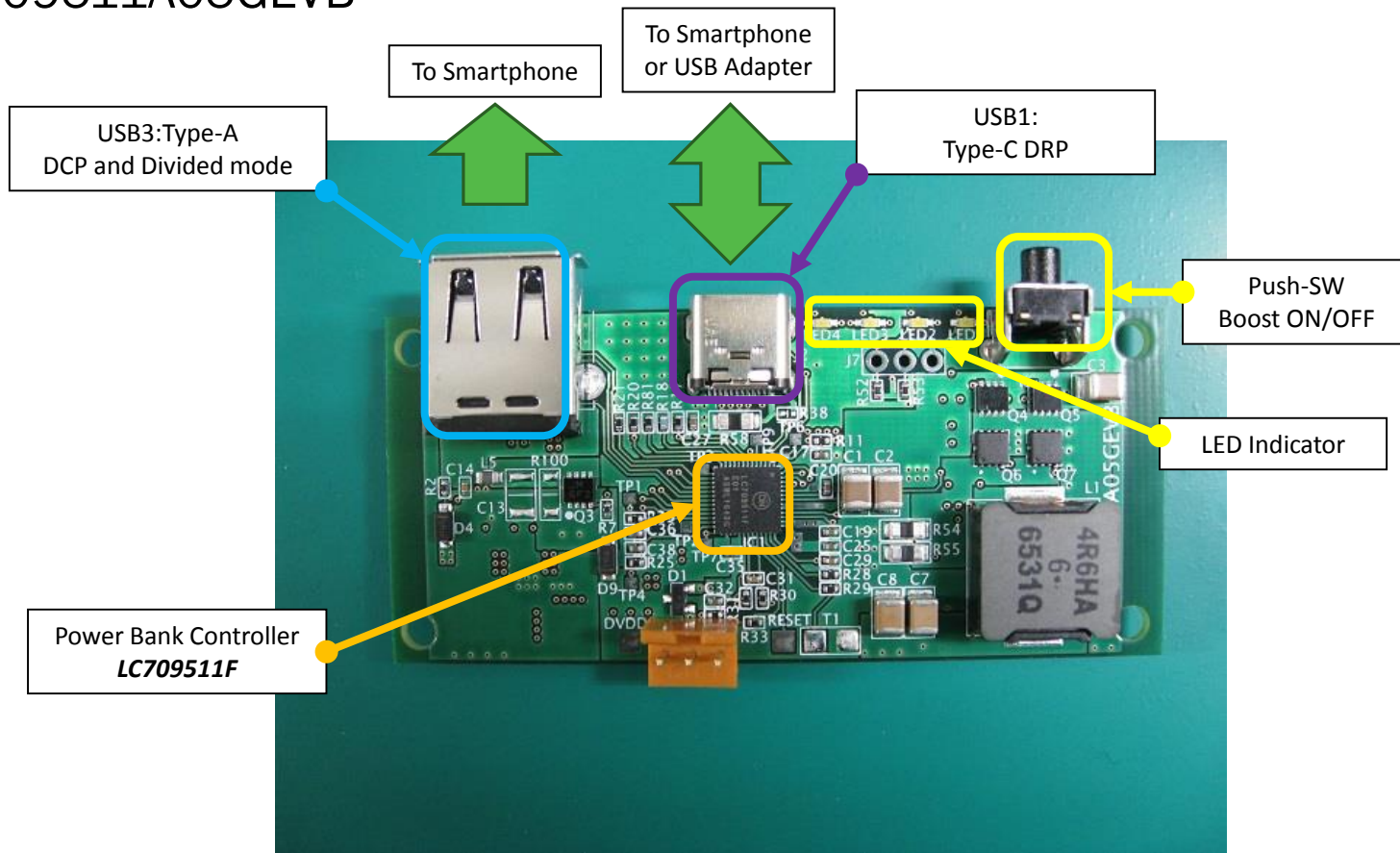
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LC709511F : FW05(Type-C, Type-A) EVB Overview

LC709511A05GEVB



LC709511EVA05GEVB Functions

Reference software used for this EVB : LC709511F-FW05 (Ver.100)

Function		USB1 (Type-C DRP)	USB3 (Type-A)
1	USB1 QC3.0 Output	Smartphone_1	N/A
2	USB1&USB3 2-port (QC3.0 & 5V) Output	Smartphone_1	Smartphone_2
3	USB3 5V Output	N/A	Smartphone_2
4	USB1 5V Input	Adapter	N/A



LC709511EVA05GEVB connection example

Function 2 : USB1 & USB3 Output

Smartphone_1
Xiaomi MI 5
Android 6.0.0
USB Type-C x1(DRP)
QC3.0 supported



USB1 Type-C
DRP(DFP)

Smartphone_2
Huawei Honor
Android 5.1.1
USB micro-B



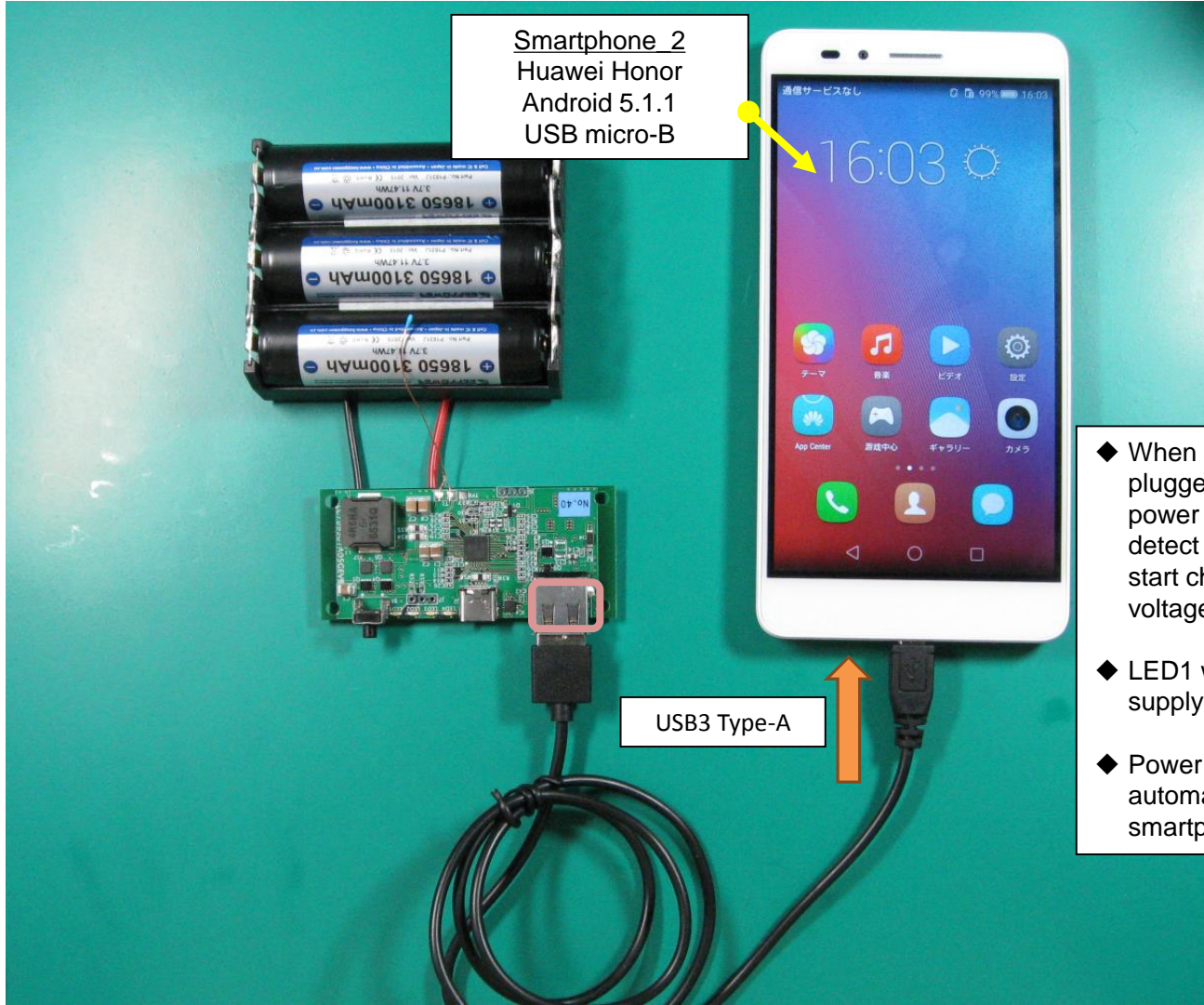
USB3 Type-A

- ◆ Two smartphones can be charged at the same time when Smartphone_1 is connected to USB1 and Smartphone_2 is connected to USB3.
- ◆ In this case, USB1 is supplying voltage in the range of 5V~12V and USB3 is supplying 5 fixed voltage.
- ◆ LED1 will flash while supplying power to these smartphones.



LC709511EVA05GEVB connection example

Function 3 : USB3 5V Output



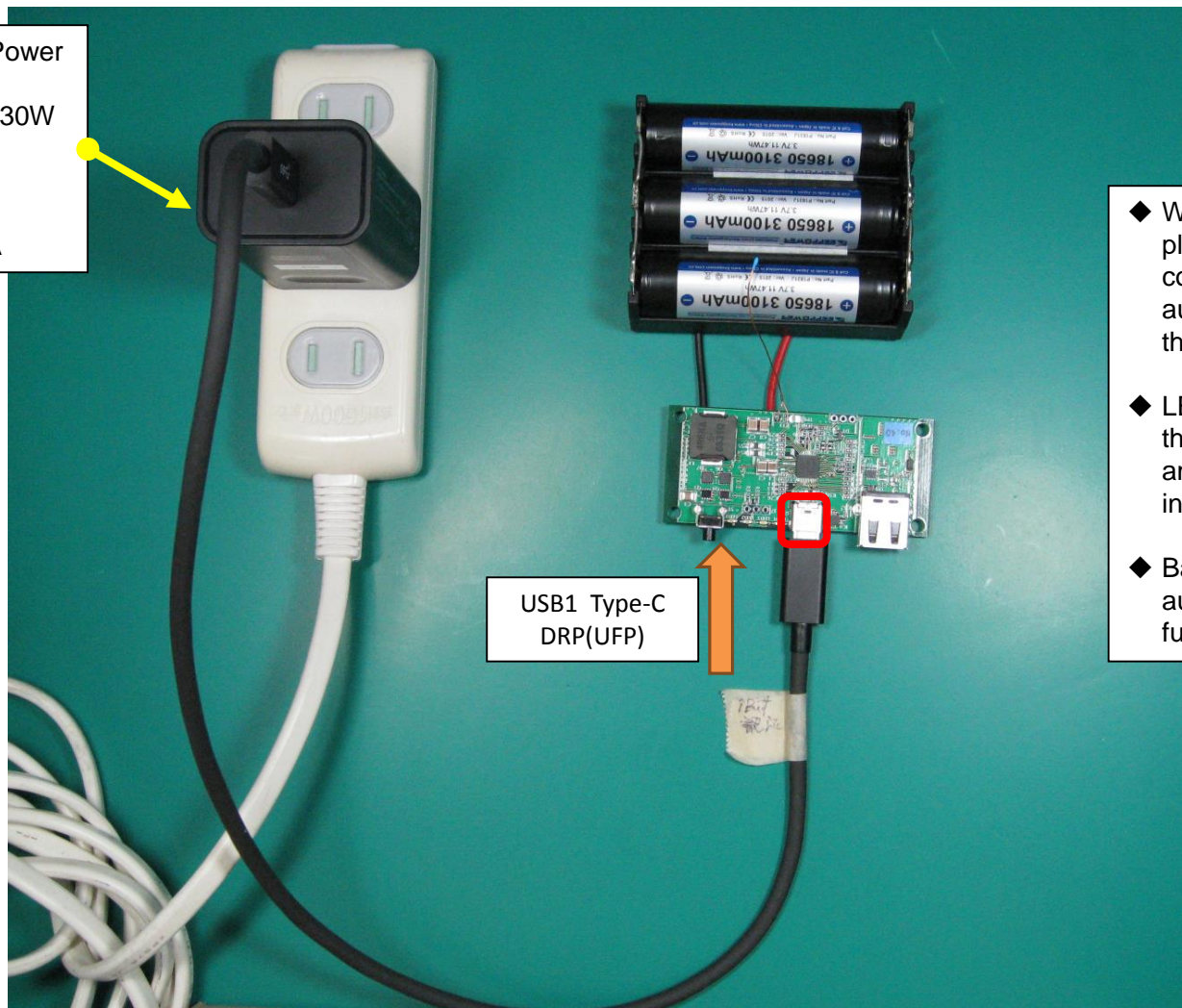
- ◆ When a smartphone is plugged into an USB3, the power bank will automatically detect the connection and start charging 5V fixed voltage.
- ◆ LED1 will flash while supplying power.
- ◆ Power supply will automatically stop once the smartphone is fully charged.



LC709511EVA05GEV connection example

Function 4 : AC-Adapter(Type C)Input

USB Type-C Power Adapter
Output: Max. 30W
5.0V/3A
9V/2A
15V/2A
20V/1.5A



USB1 Type-C
DRP(UFP)

- ◆ When the USB adapter is plugged into USB1 connector, it will automatically start charging the battery inside.
- ◆ LEDs will flash based on the battery remaining amount while charging the internal battery.
- ◆ Battery charging will automatically stop once it is fully charged.

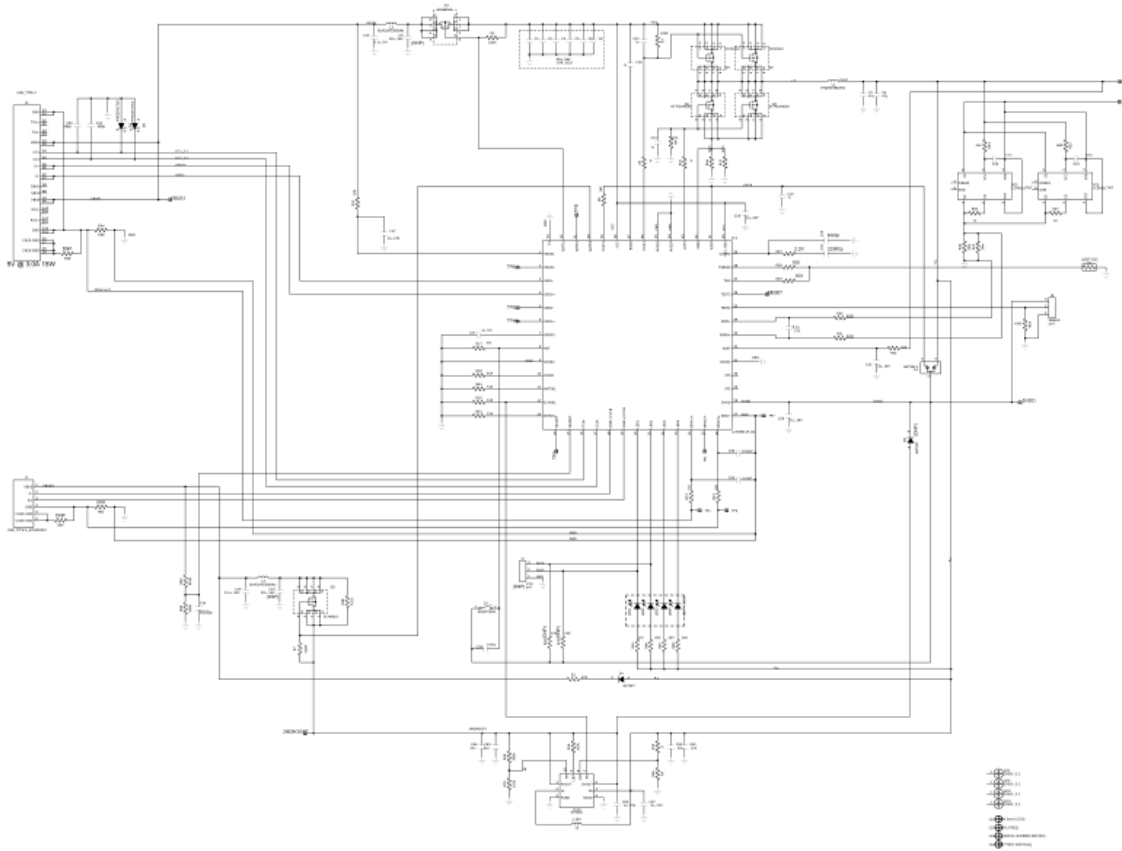


LC709511EVA05GEVB Circuit Diagram

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Schematic for the LC709511A05GEVB Evaluation Board



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