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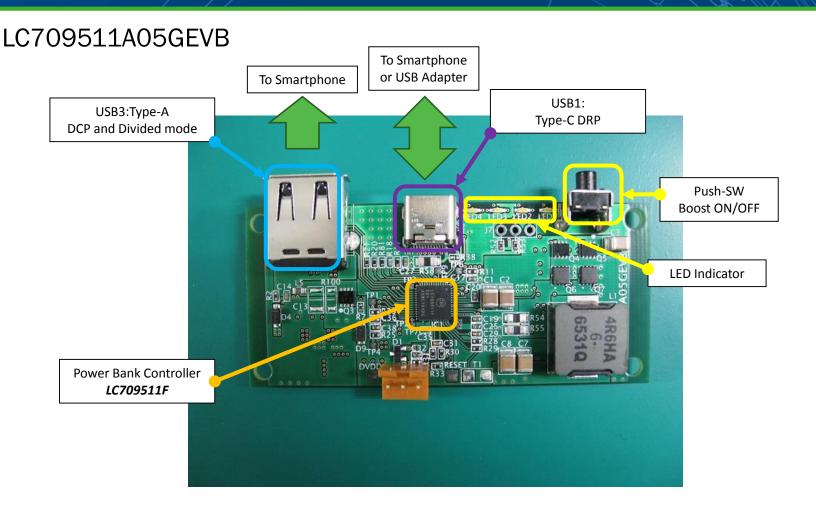
Power Bank Solution

LC709511A05GEVB Quick Guide Mar 9, 2017





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







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 1: USB1 QC3.0 Output

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



- ◆ When a smartphone is plugged into USB1, the power bank will automatically detect the smartphone and checks the suitable supply voltage from the range of 5V~12V.
- LED1 will flash while supplying power.
- Power supply will automatically stop once the smartphone is fully charged.
- ※ In case the smartphone is DRP type, smartphone may be treated as DFP and begin charging the power bank (This may happen by the DRP toggle timing).

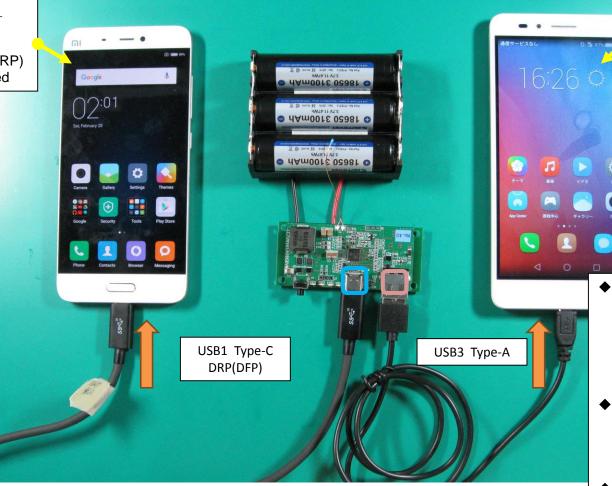
This also depends on the DRP policy of the smartphone.



QC3.0 signal

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



Smartphone 2 Huawei Honor Android 5.1.1 USB micro-B

- ◆ 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.





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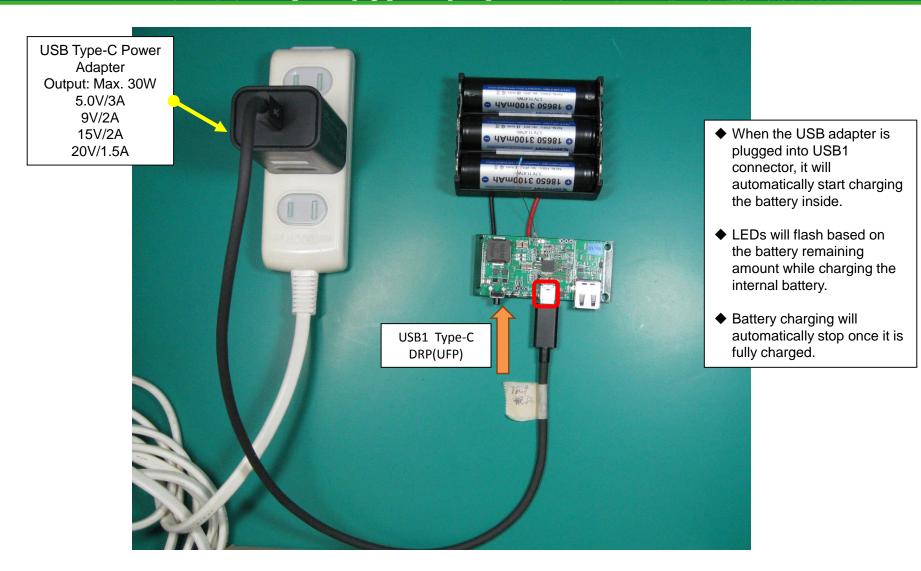
LC709511EVA05GEVB connection example Function 3: USB3 5V Output







LC709511EVA05GEV connection example Function 4 : AC-Adapter(Type C)Input



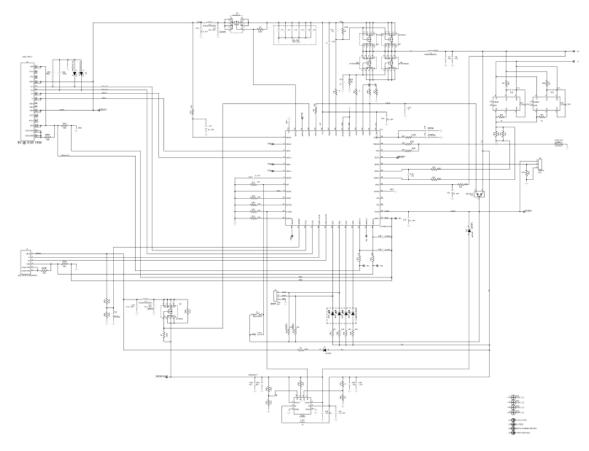




LC709511EVA05GEVB Circuit Diagram



Schematic for the LC709511A05GEVB Evaluation Board







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