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Power Bank Solution

LC709511A05GEVB Quick Guide Mar 9, 2017

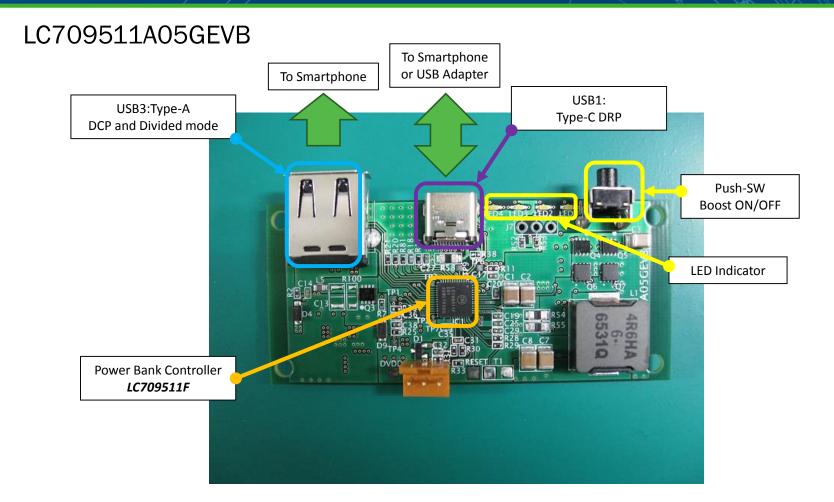


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LC709511F : FW05(Type-C, Type-A) EVB Overview









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

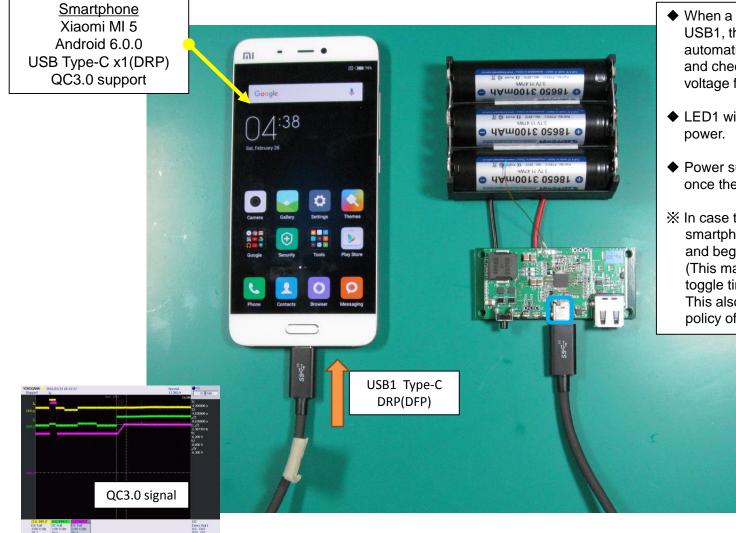


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LC709511EVA05GEVB connection example Function 1: USB1 QC3.0 Output



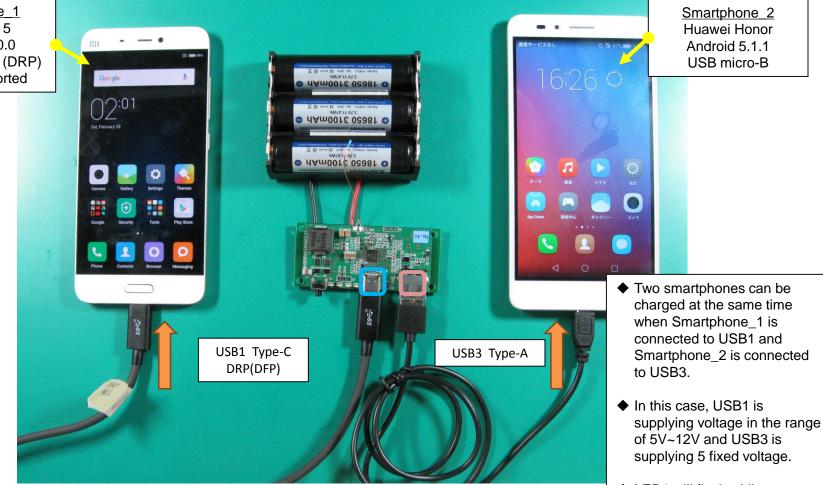
- When a smartphone is plugged into USB1, the power bank will automatically detect the smartphone and checks the suitable supply voltage from the range of 5V~12V.
- LED1 will flash while supplying power.
- Power supply will automatically stop once the smartphone is fully charged.
- In case the smartphone 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.





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



 LED1 will flash while supplying power to these smartphones.





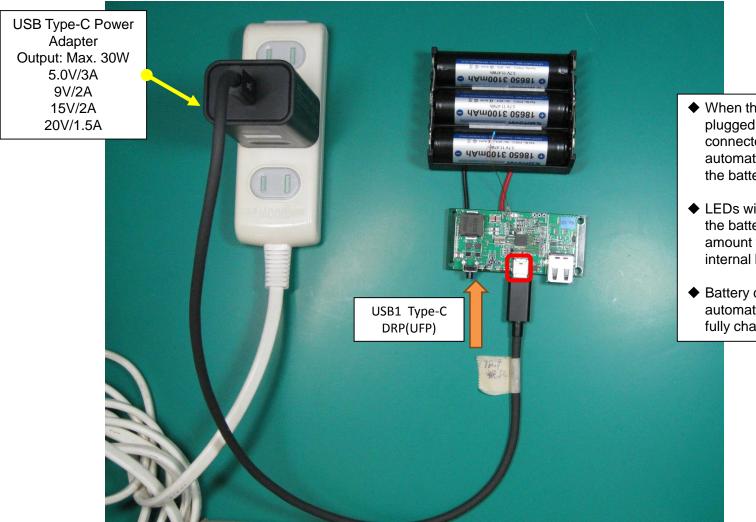
LC709511EVA05GEVB connection example Function 3 : USB3 5V Output







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



- 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.

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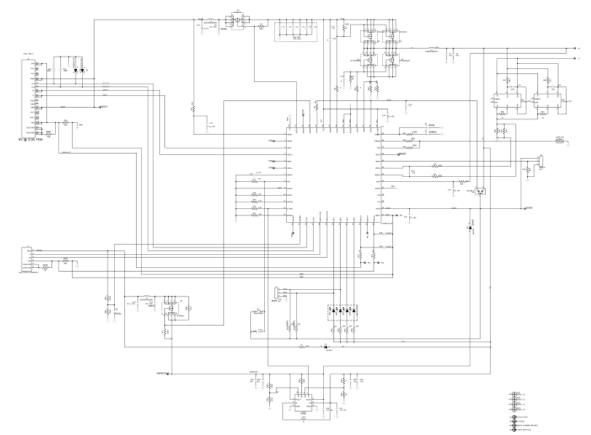


LC709511EVA05GEVB Circuit Diagram

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Schematic for the LC709511A05GEVB Evaluation Board







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