

深圳市爱微尔科技有限公司 Shenzhen Awell Technology Co.,LTD.

产品介绍



QC2. 0

/ 天元

爱微尔IC方案解决商

FP6600 QC2.0 & BC1.2 & Apple/samsung fast charging protocollC



Features

•Class A: 5V/9V/12V Output Voltage.

•Class B : 5V/9V/12V/20V Output Voltage.

•Supports USB DCP Shorting D+ Line to D- Line per USB BC1.2.

•Supports USB DCP applying 2.7V on D+ line and 2.7V on D- line.

•Supports USB DCP applying 1.2V on D+ and D- lines

•Complaint with Apple® and Samsung devices

•SOP-8 Pb-Free Package

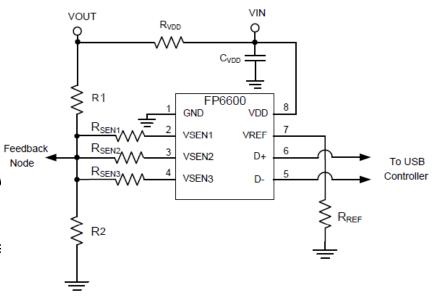
FP6600 QC2.0快充IC特点:

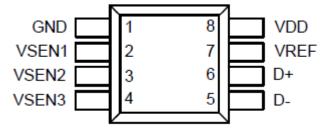
QC2.0 A: 5V,9V,12V \ QC2.0 B: 5V,9V,12V,20V

苹果APPLE快充、三星samsung快充、BC1.2协议识别

高通的QC2.0快速充电需要手机端和充电器(+FP6600快充IC)都要支持才能更高输出9V,12V,20V;手机端不兼容QC2.0协议的,FP6600快充IC会自动识别,禁用快速充电功能,并安全无误地调整电压为传统的5V充电模式。

FP6600支持传统5V充电模式市场所有BC1.2协议的快充自动识别;和三星、苹果12W的快充模式。充电效果跟手机的原装充电器不相上下。





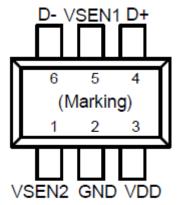
P2P CHY100

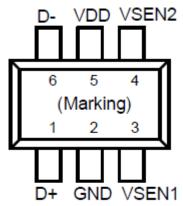
FP6601 QC2.0 & BC1.2 & Apple/samsung fast charging protocollC



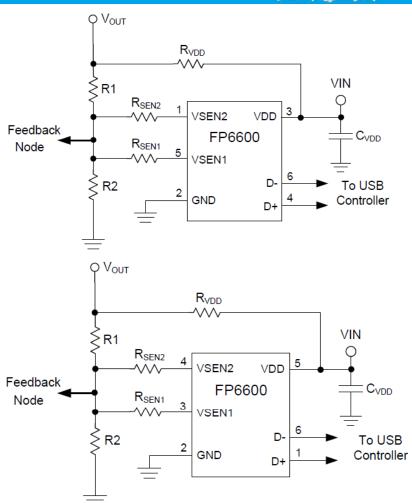
Features

- •Class A: 5V/9V/12V Output Voltage.
- •Supports USB DCP Shorting D+ Line to D- Lineper USB Battery Charging Specification, Revision 1.2.
- •Supports USB DCP applying 2.7V on D+ line and 2.7V on D- line.
- •Supports USB DCP applying 1.2V on D+ and D- lines
- •Complaint with Apple® and Samsung devices
- •SOP-8 Pb-Free Package





S6 Package A (SOT-23-6) S6 Package B (SOT-23-6)

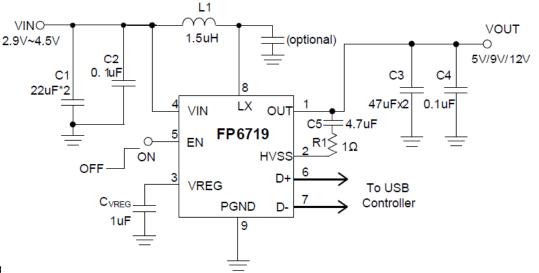


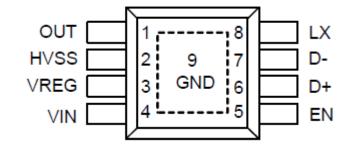
FP6719 High Efficiency, Synchronous Boost Converter with Fast Charging Protocol



Features

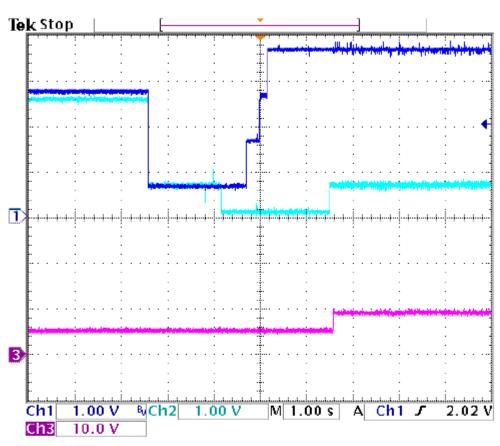
- •nput Voltage Range from 2.9V to 4.5V.
- •Output Voltage Can be Set to 5V/9V/12V.
- •Built-in Low RDS (ON) Integrated Power MOSFET NMOS $39m \Omega / PMOS 42m \Omega$
- •3. 0A Output Current at 5V.
- •Fixed Switching Frequency 500KHz.
- •±2% Voltage Accuracy.
- Power-Save Mode for Light-Load Efficiency.
- •Short Circuit Current Fold-back Protection.
- •Built-in Soft Start, Output Overvoltage Protection and Thermal Protection.
- •Supports USB DCP Shorting D+ Line to D- Line BC1. 2.
- •Complaint with Apple® and Samsung devices





QC2. 0_9V Test



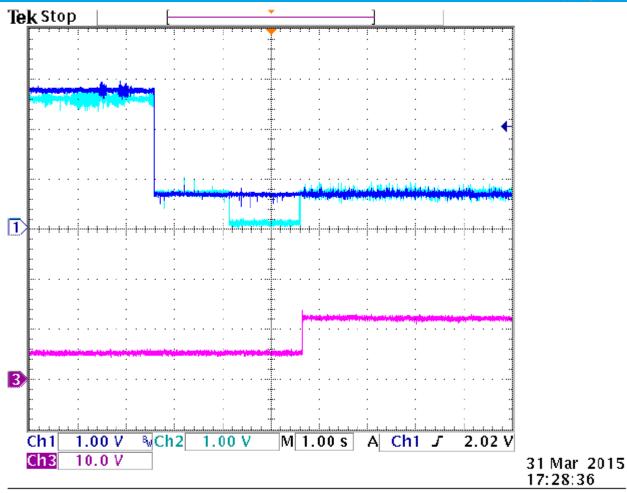


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D+>0.325V and keep 1.25S, SW4: ON, 進入QC2.0 Mode. D+=3.3V, D-=0.6V, SW1:ON, VOUT=9V.

QC2. 0_12V Test

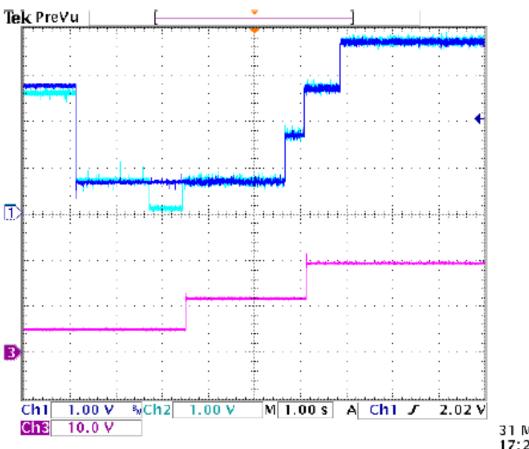




D+>0.325V and keep 1.25S, SW4: ON, 進入QC2.0 Mode. D+=0.6V, D-=0.6V, SW1,SW2:ON, VOUT=12V.

QC2. 0_20V Test



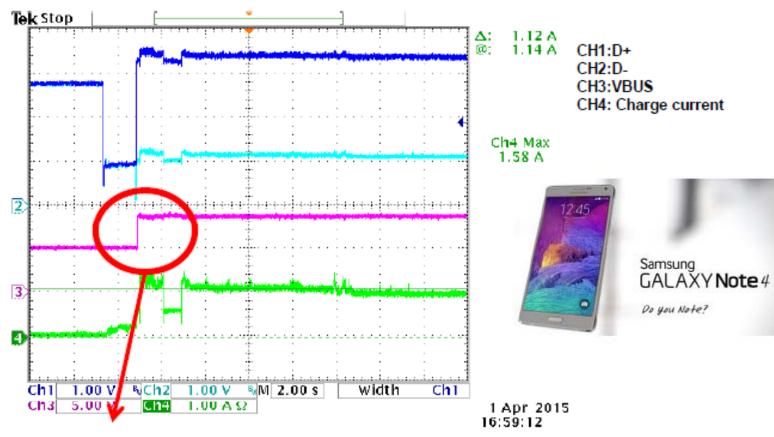


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D+>0.325V and keep 1.25S, SW4: ON, 進入QC2.0 Mode. D+=3.6V, D-=3.6V, SW1,SW2,SW3:ON, VOUT=20V.

QCC 2.0 Test Performance w / Samsung Not4

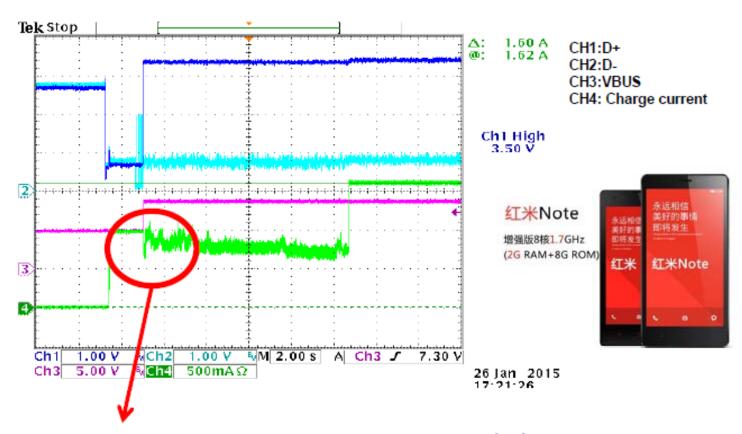




Through D+/ D- communication, after receiving Samsung Note4 9V request, FP6600 controls internal MOS for changing Boost IC's Vfb to change Vbus from 5V to 9V and enter QC2.0 9V mode

QC2. O Test Performance w / HONG MI Note





Through D+/ D- communication, after receiving 紅米Note 9V request, FP6600 controls internal MOS for changing Boost IC's Vfb to change Vbus from 5V to 9V and enter QC2.0 9V mode

BC1. 2 Test Performance





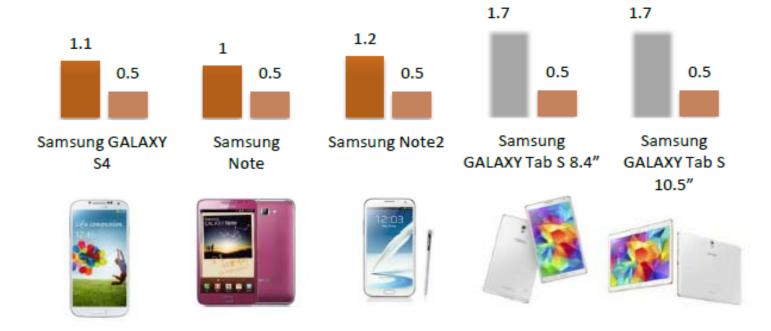
Power Device	Huawei Honor H30-L01	小米 紅米note	Sony Z1	HTC Desire 820	ASUS Padphone Infinity	ASUS Zenfone 5
BAT Status	69%	58%	80%	66%	80%	85%

1. 支援快充: 支持BC1.2快充

2. 兼容性佳: 華為, 小米, Sony, HTC, 華碩etc. 皆可兼容

Apple & Samsung Power Device





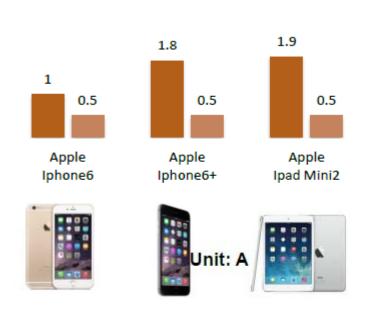
Samsung GALAXY S4	Samsung Note	Samsung Note2	Samsung GALAXY Tab S 8.4"	Samsung GALAXY Tab S 10.5"
49%	79%	86%	59%	69%

Apple & Samsung Power Device



Apple & Samsung Power Device

■ FP6600 I_BAT ■ Normal USB



Power Apple Iphone6		Apple Iphone6+	Apple Ipad Mini2	
BAT Status	75%	70%	29%	

1. 支援快充: 支持Apple/ Samsung大電流快充

2. 兼容性佳: 蘋果, 三星皆可兼容



爱微尔是你可靠的供应伙伴

