

9922 Quick Charger



Front panel



Rear panel



Feature

- Support quick charger : QC2.0 / QC3.0 / PE+ / PE+2.0 / USB PD
- Suitable for all Electronic Load

Specification

MODEL : 9922	
No. of Test Channel	1
Support Quick Charge	QC2.0, QC3.0, PE+, PE+2.0, USB PD2.0
Terminal of Charger	micro USB, USB Type C
Input Power	5V, 150mA

Input AC Power : 100~230 Vac \pm 10%

Order Information

9922 Quick Charger

200g

W=87mm

H=113mm

D=44.8mm

Application

- Quick Charger

Descriptions

Prodigit develops 9922 Quick Charger Controller, it provides Quick Charger, Pump Express, USB PD 3 types quick charging device simulation test ◦

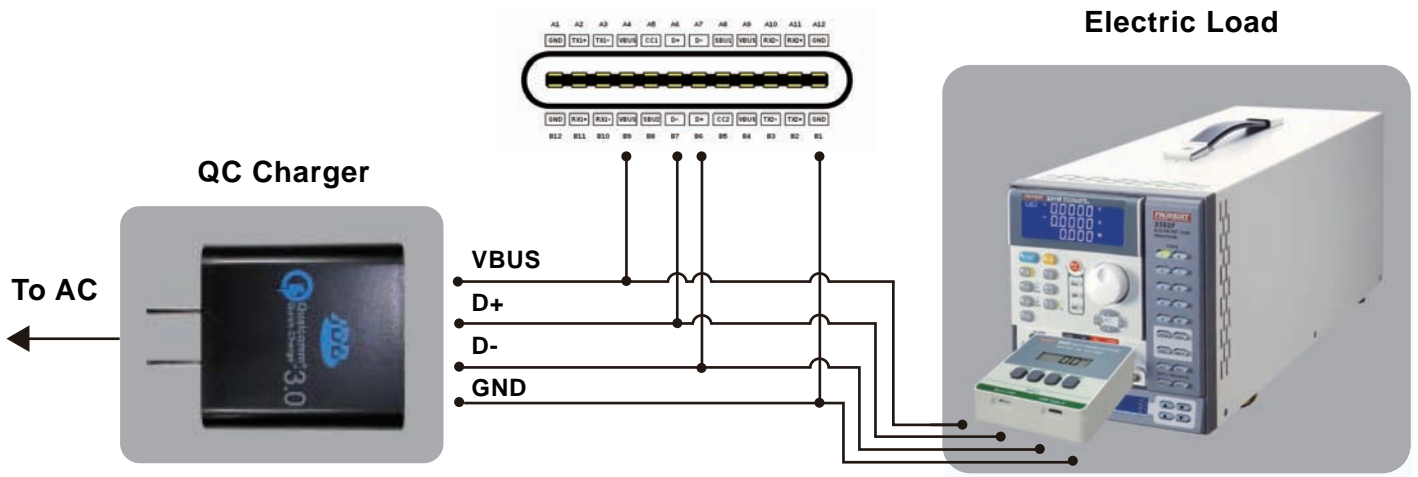
9922 can simulate fast charge control signal of mobile phones, tablet and notebook devices for a variety of fast charging technology to provide rapid testing and verification of the charger.

9922's banana plug can be directly connected with the binding post of Prodigit electronic load, using the electronic load to simulate the load of the quick charger.

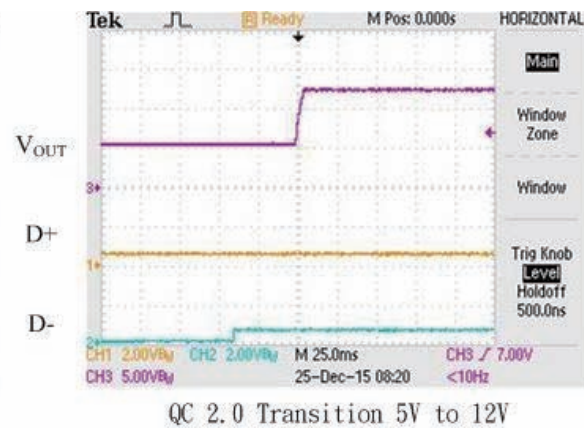
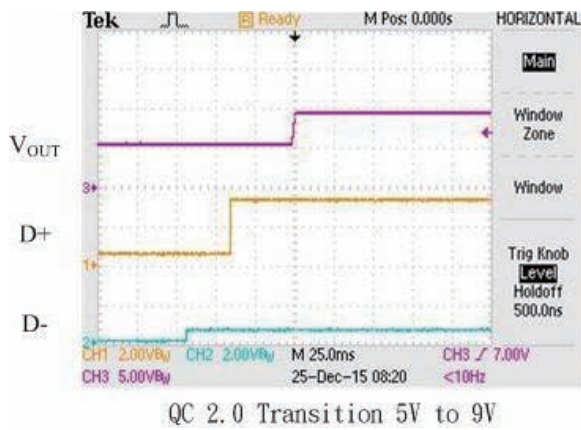
For the connection with the U.U.T, the 9922 provides a Micro USB and a USB Type C hardware interface.

The 9922 Quick Charger Controller can simulate the all voltage combinations of D +, D- for QC 2.0 testing to verify the output voltage of the test charger, and to simulate the connection and remove the connection to the charger to verify that the charger can be immediately automatically stop the high voltage output down to 5V, to ensure that the function is normal to meet the Quick Charge 2.0 specification

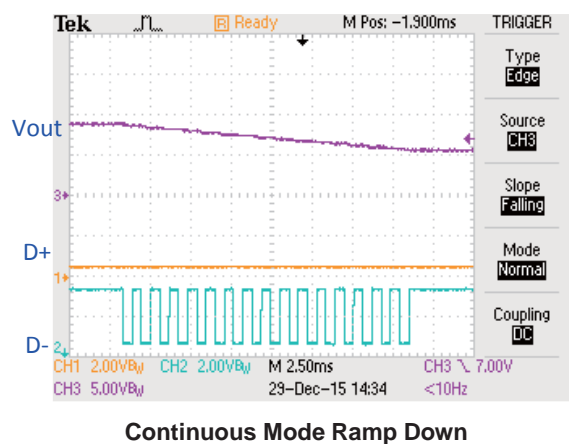
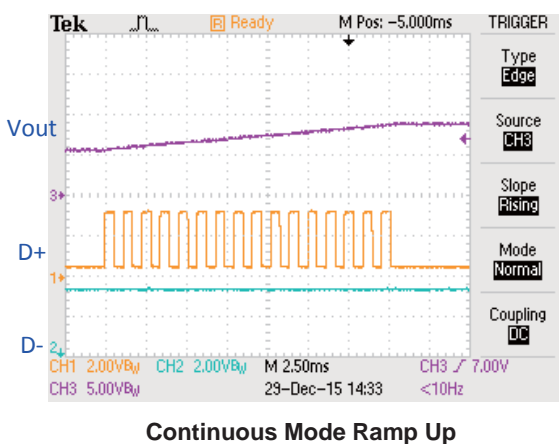
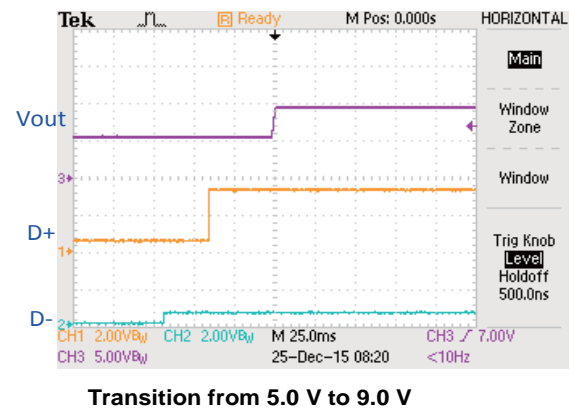
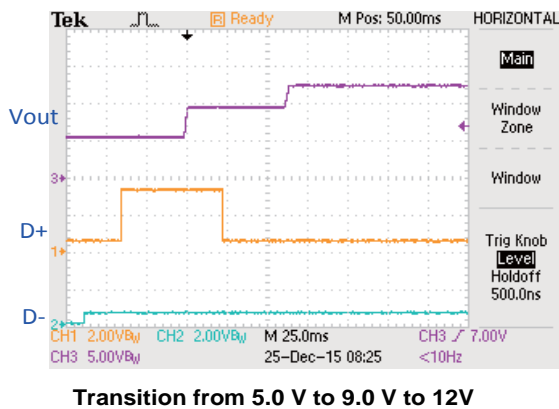




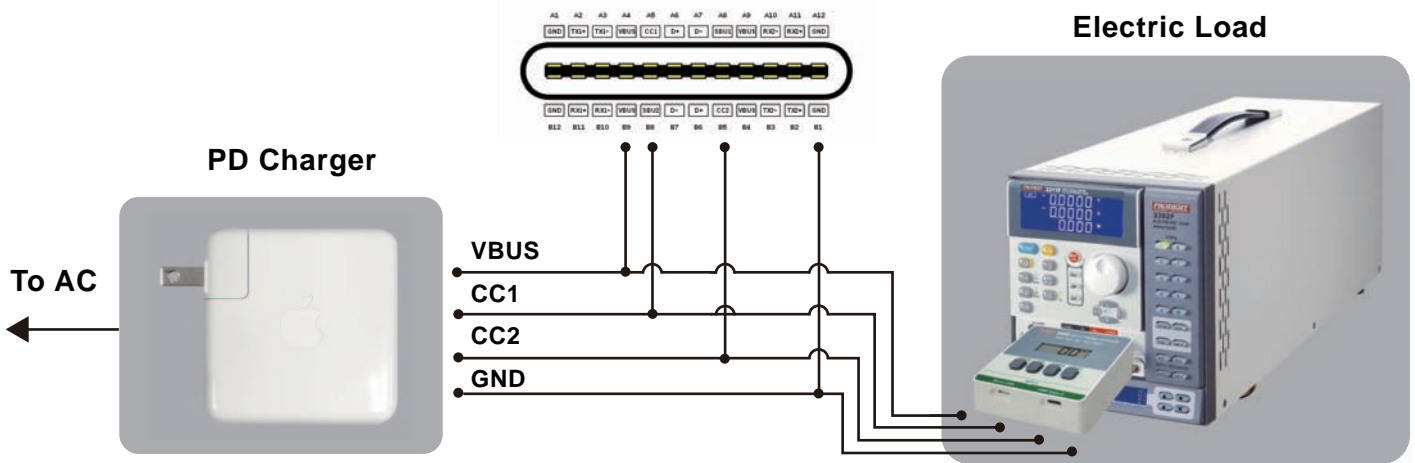
QC Charger Application Connect Diagram



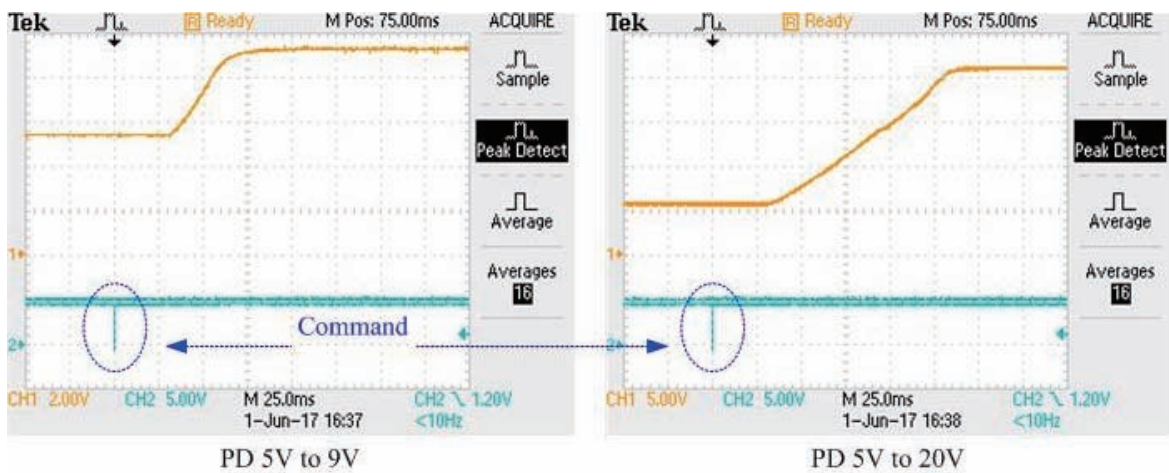
The 9922 Quick Charger Controller is able to simulate the D +, D- pulse control the increments and decrements of 0.2V to verify the output voltage of the test charger to ensure compliance with the Quick Charge 3.0 specification. As shown below...



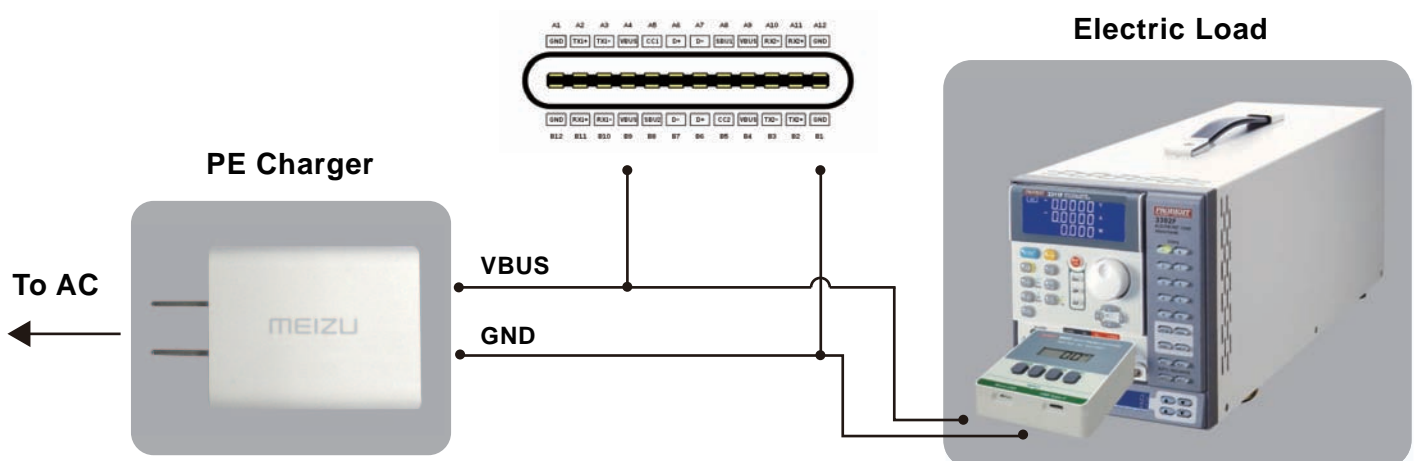
The 9922 Quick Charger Controller, containing a PD control chip which can simulate the device to verify the test procedure of USB PD, you can use a single button to complete all the required test to ensure compliance with the PD specification. As shown below...



PD Charger Application Connect Diagram



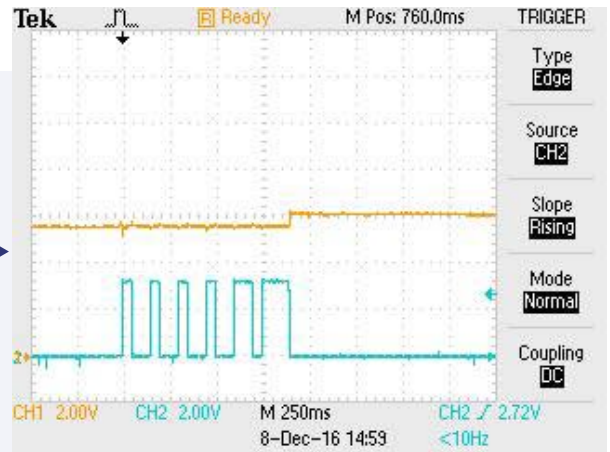
The 9922 Quick Charger Controller is capable of simulating commands with current $I_{low} < 0.13A$ and $I_{high} > 0.3A$ to verify and test the output voltage of the charger to ensure compliance with PE specification. As shown below...



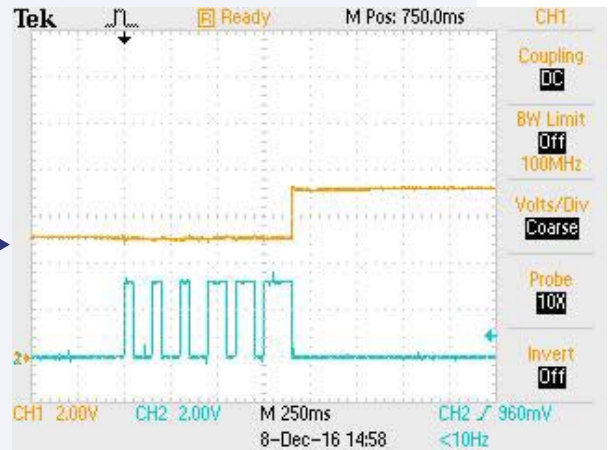
PE Charger Application Connect Diagram

Digital Code bit5-bit0 [4:0]	Absolute Voltage	Unit
00000B	5.5	V
00001B	6	V
00010B	6.5	V
00011B	7	V
00100B	7.5	V
00101B	8	V
00110B	8.5	V
00111B	9	V
01000B	9.5	V
01001B	10	V
01010B	10.5	V
01011B	11	V
01100B	11.5	V
01101B	12	V
01110B	12.5	V
01111B	13	V
10000B	13.5	V
10001B	14	V
10010B	14.5	V
10011B	15	V
10100B	15.5	V
10101B	16	V
10110B	16.5	V
10111B	17	V
11000B	17.5	V
11001B	18	V
11010B	18.5	V
11011B	19	V
11100B	19.5	V
11101B	20	V

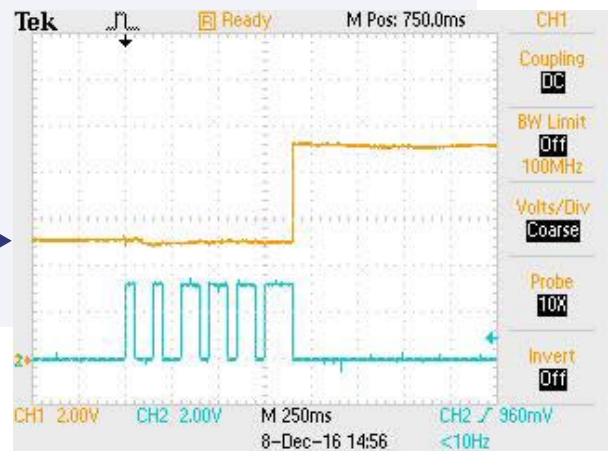
PE+ 2.0 COMMANHD



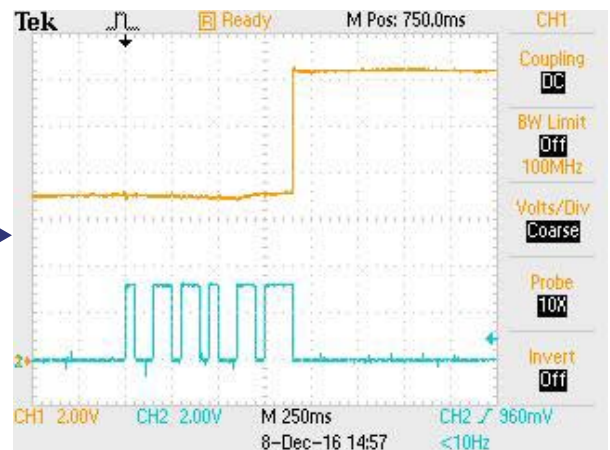
PE2 cmd: 00001b 6.0V



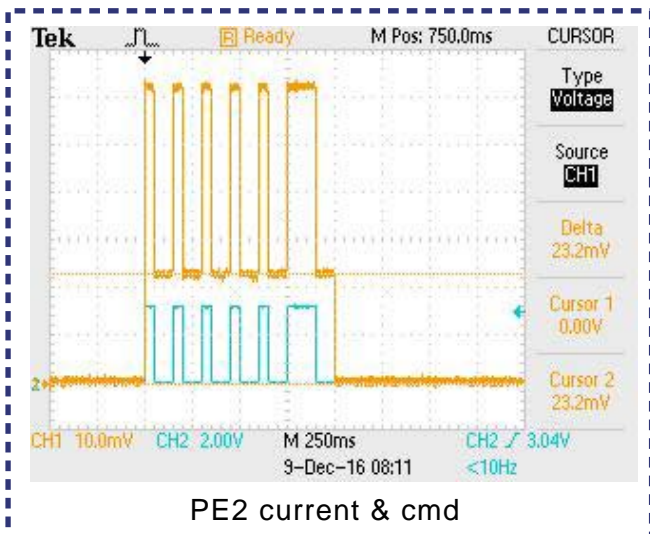
PE2 cmd: 00011b 7.0V



PE2 cmd: 01111b 9.0V



PE2 cmd: 01101b 12.0V



PE2 current & cmd