

HTT Green Power End Product Prototype Introduction



Welcome to the **Analog Era.**

Bridging between the digital & quantum eras — HTT's brain-inspired **Analog In-Memory Computing & RISC-V** technology.

DISCLAIMER

這個文件內所有信息、產品圖片和顯示內容僅供參考。實際產品功能、成本和規格等(包括但不限於外觀、顏色和尺寸)以及實際顯示內容(包括但不限於背景、UI和圖標)可能會因時間及實際情況有所差異。這個文件內所有數據及比較是在特定情況下對比市面部份同類產品，均為內部實驗室通過特定條件下進行的測試獲得的理論值，如實際充電時間及快充模式兼容性等是可能因客觀環境而變化。所有結果會因此出現差異。由於個別產品、軟件版本、應用條件和環境因素的差異，實際數據可能會有不同。所有數據因實際使用而有所不同。受條款及細則約束，請參閱上述產品詳細和規格。有關更多信息、文件內容、產品信息、價格等如有更改，恕不另行通知。

All data, images and content in this document are for reference only. Actual function, cost and specification etc. (included but not limited to appearance, color and size) as well as content shown (included but not limited to background, UI and icons) may be subjected to changes according to time and actual situation. All data included in this document are compared with market products under specific circumstances. Theoretical values were attained by test under specific conditions at internal laboratory. For example, actual charging time and compatibility of Fast Charging Protocol are subjected to changes under different conditions, thus may leading to differ in results. Different software updates, application conditions and environment factor in individual product may lead to differ in experimental results. All data may differ from actual application and subjected to terms and conditions, please refer to details and specifications herein. We reserve the right to make changes at any time, of any products or specifications herein, without further notice.



Content



Green High-Power USB Charging End Product Prototype

- [GaN 65W Dual USB Type-C Charging Adaptor](#)
- [78W 1C1A Car Charger](#)
- [45W 1C1A Car Charger](#)
- [65W 2C1A Travel Adaptor](#)
- [30W Dual USB Type-C UK Wall Socket](#)
- [154W 4-Port Hub for Automotive](#)



GaN 65W Dual USB Type-C Charging Adaptor

Operating mode :	Single Channel	Dual Channel
Input Voltage	AC 110V-220V	
Output Voltage and Current (Max Output Power: 65W)	(5V 3A), (9V 3A), (12V 3A) (15V 3A), (20V 3.25A)	Max Total Output Current: 6A
Fast Charging Protocols Supported	PD 3.0, QC 3.0*	
Max Output Power	65W	35W + 20W = 55W
Load Regulation Accuracy	Output voltage accuracy reaches 98 % under different loads #	
Max Power Conversion Efficiency	Vin 110V 88% / Vin 220V 90%	
Short Circuit Test	✓	

* Youtube Video Link: High Tech Technology GaN 65W Dual USB Type-C Charging Adaptor
(<https://www.youtube.com/watch?v=f2JRdtOp1GQ>)

* QC3.0: Based on QUALCOMM webpage: Charge up to 4 times faster than conventional 5W chargers .
(<https://www.qualcomm.com/news/eng/2015/09/14/introducing-quick-charge-30-next-generation-fast-charging-technology>)





78W 1C1A Car Charger

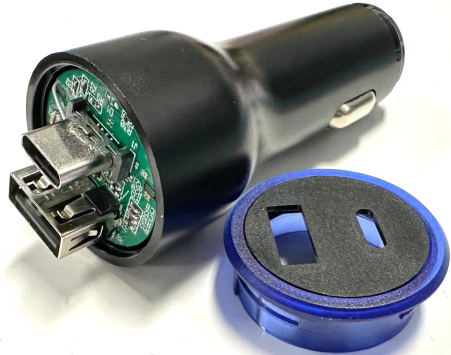
Operation mode	Single Channel	Dual Channels
Input Voltage	DC 12V-24V	
Output voltage and current (Maximum power 18W + 60W)	<u>When input 12V</u> Type-A : 5V 3A, 9V 2A, 12V 1.5A Type-C : 5V 3A, 9V 3A, 12V 3A,	
	<u>When input 24V</u> Type-A : 5V 3A, 9V 2A, 12V 1.5A Type-C : 5V 3A, 9V 3A, 12V 3A, 15V 3A, 20V 3A	
Protocol supported	PD 3.0, QC 3.0*	
Maximum output power	60W	18W + 60W = 78W
Load Regulation	Output voltage accuracy at different loading 98%#	
Efficiency	85%	85%
Short Circuit Protection	✓	

This specification is subject to change without notice in advance.

* Youtube Video Link: High Tech Technology 60W 1C1A Car Charger
(<https://www.youtube.com/watch?v=yMsQPmzx7ps>)

* QC3.0: Based on QUALCOMM webpage: Charge up to 4 times faster than conventional 5W chargers.
(<https://www.qualcomm.com/news/onq/2015/09/14/introducing-quick-charge-30-next-generation-fast-charging-technology>)

Definition: (Actual Vout / Target Vout) %



45W 1C1A Car Charger

Operation mode	Single Channel	Dual Channels
Input Voltage	DC 12V-24V	
Output voltage and current (Maximum power 18W + 45W)	Type-A : 5V 3A, 9V 2A, Type-C : 5V 3A, 9V 3A, 12V 3A, 15V 3A	Type-A : 5V 3A, 9V 1.6A Type-C : 5V 3A, 9V 3A, 12V 2.5A, 15V 2A
Protocol supported	PD 3.0, QC 3.0*	
Maximum output power	45W	15W + 30W = 45W
Load Regulation	Output voltage accuracy at different loading 98%#	
Efficiency	85%	85%
Short Circuit Protection	✓	

This specification is subject to change without notice in advance.

* Youtube Video Link: High Tech Technology 36W 1C1A Car Charger
(<https://www.youtube.com/watch?v=AbmNfZKcaQ8>)

* QC3.0: Based on QUALCOMM webpage: Charge up to 4 times faster than conventional 5W chargers.
(<https://www.qualcomm.com/news/eng/2015/09/14/introducing-quick-charge-30-next-generation-fast-charging-technology>)

Definition: (Actual Vout / Target Vout) %





GaN Technology.

-  **fast charge**
-  **small size**
-  **Less heat**

GaN 3-PORT TRAVEL ADAPTER

Smart power distribution for three devices.

2x USB-C and 1 x USB-A

Customize
Your own logo.



65W



From semiconductor R&D to product design —

all from Hong Kong.

PD3.0 65W

MACBOOK COMPATIBLE.

65W 2C1A Travel Adaptor



65W 2C1A Travel Adaptor

- Three output channels travel adaptor
- USB fast charging module built with **HTT dual channel DC-DC buck controller/converter**
 - AC Input 90V~240V
 - 1 USB Type-A and 2 Type-C outputs
 - USB Type-A support QC3.0 protocol, Type-C support PD3.0 and QC3.0 protocol
 - Fast charge three devices simultaneously
 - Output power overall max 65W:
 - Single C channel max 65W,
 - Single A channel max 18W,
 - Dual C+C channels max 30W + 30W,
 - Dual C+A channels max 42W + 18W,
 - Triple C+C+A channels max 30W + 18W + 18W
 - Dimensions 77mm x 53mm x 59mm

DISCLAIMER

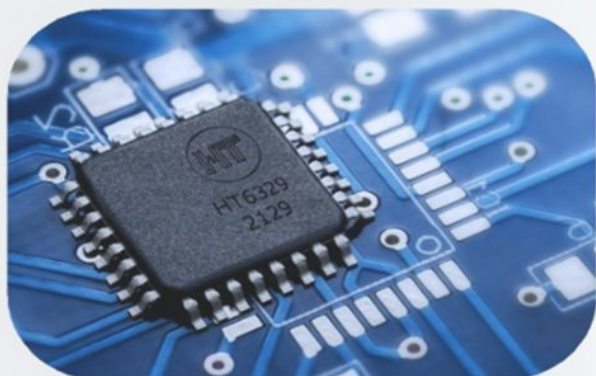
這個文件內所有信息、產品圖片和顯示內容僅供參考。實際產品功能、成本和規格等(包括但不限於外觀、顏色和尺寸)以及實際顯示內容(包括但不限於背景、UI和圖標)可能會因時間及實際情況有所差異。這個文件內所有數據及比較是在特定情況下對比市面部份同類產品，均為內部實驗室通過特定條件下進行的測試獲得的理論值，如實際充電時間及快充模式兼容性等是可能因客觀環境而變化，所有結果會因此出現差異。由於個別產品、軟件版本、應用條件和環境因素的差異，實際數據可能會有不同。所有數據因實際使用而有所不同。受條款及細則約束，請參閱上述產品詳細和規格。有關更多信息、文件內容、產品信息、價格等如有更改，恕不另行通知。

All data, images and content in this document are for reference only. Actual function, cost and specification etc. (included but not limited to appearance, color and size) as well as content shown (included but not limited to background, UI and icons) may be subjected to changes according to time and actual situation. All data included in this document are compared with market products under specific circumstances. Theoretical values were attained by test under specific conditions at internal laboratory. For example, actual charging time and compatibility of Fast Charging Protocol are subjected to changes under different conditions, thus may leading to differ in results. Different software updates, application conditions and environment factor in individual product may lead to differ in experimental results. All data may differ from actual application and subjected to terms and conditions, please refer to details and specifications herein. We reserve the right to make changes at any time, of any products or specifications herein, without further notice.

This specification is subject to change without notice in advance.



香港本地
供電芯片



雙USB-C 插座



智能電源 15W+15W/30W



提供PD3.0, QC3.0快充

30W 6倍速度

由半導體至

製成品 R&D -

香港本地一手包辦

本地設計



Macbook
/ 手提電腦



自定個人圖案

30W Dual USB Type-C UK Wall Socket

Operating Mode :	Single Channel	Dual Channel										
Input Voltage	AC 220V-240V											
Output Voltage and Current (Max Output Power: 15W + 15W)	(5V 3A), (9V 3A), (12V 2.5A), (15V, 2A), (20V 1.5A)	Max Total Output Current: 6A <table border="1" data-bbox="1972 464 2346 664"> <thead> <tr> <th>USB-C1</th> <th>USB-C2</th> </tr> </thead> <tbody> <tr> <td>5V/3A</td> <td>5V/3A</td> </tr> <tr> <td>9V/1.65A</td> <td>9V/1.65A</td> </tr> <tr> <td>12V/1.25A</td> <td>12V/1.25A</td> </tr> <tr> <td>15V/1A</td> <td>15V/1A</td> </tr> </tbody> </table>	USB-C1	USB-C2	5V/3A	5V/3A	9V/1.65A	9V/1.65A	12V/1.25A	12V/1.25A	15V/1A	15V/1A
USB-C1	USB-C2											
5V/3A	5V/3A											
9V/1.65A	9V/1.65A											
12V/1.25A	12V/1.25A											
15V/1A	15V/1A											
Fast Charging Protocols Supported	PD 3.0, QC 3.0*											
Max Output Power	30W	15W + 15W = 30W										
Load Regulation accuracy	Output voltage accuracy reaches 98 % under different loads #											
Max Power Conversion Efficiency	85%	85%										
Short Circuit Test	✓											

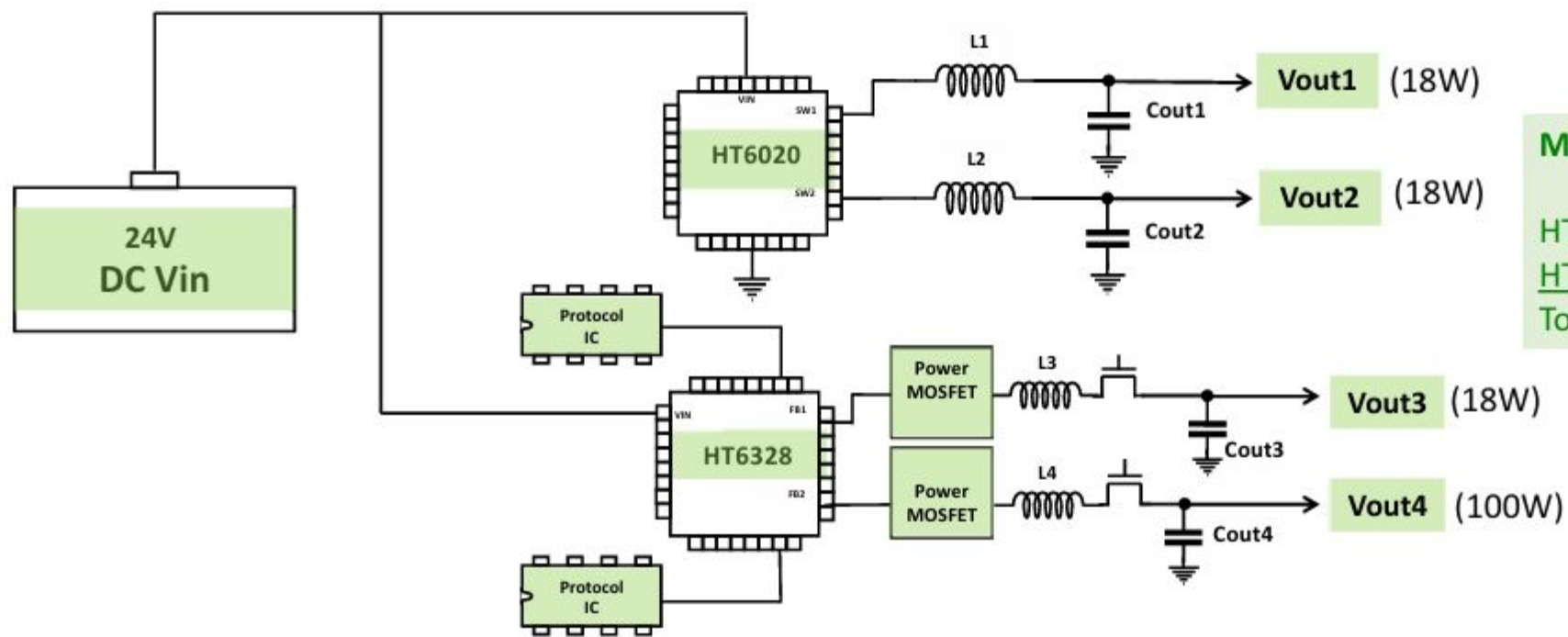
* QC3.0: Based on QUALCOMM webpage: Charge up to 4 times faster than conventional 5W chargers .

(<https://www.qualcomm.com/news/onq/2015/09/14/introducing-quick-charge-30-next-generation-fast-charging-technology>)

Definition: (Actual Vout / Target Vout) %



154W 4-Port Hub for Automotive



Major HTT ICs:

HT6020 X 1
HT6328 X 1
Total = 2 ICs





芯高科技
HIGH TECH
TECHNOLOGY LIMITED

芯度技術 高度品質

用「芯」為您創出科技高峰
hightt.com

聯絡我們 Contact Us (Hong Kong Office)

Tel: (852) 36195375

Email: httadmin@hightt.com

Address: Unit 713, 7/F, 12W, 12 Science Park West Avenue,

Hong Kong Science Park, Shatin, Hong Kong

DISCLAIMER

這個文件內所有信息、產品圖片和顯示內容僅供參考。實際產品功能、成本和規格等(包括但不限於外觀、顏色和尺寸)以及實際顯示內容(包括但不限於背景、UI和圖標)可能會因時間及實際情況有所差異。這個文件內所有數據及比較是在特定情況下對比市面部份同類產品，均為內部實驗室通過特定條件下進行的測試獲得的理論值，如實際充電時間及快充模式兼容性等是可能因客觀環境而變化，所有結果會因此出現差異。由於個別產品、軟件版本、應用條件和環境因素的差異，實際數據可能會有不同。受條款及細則約束，請參閱上述產品詳細和規格。有關更多信息、文件內容、產品信息、價格等如有更改，恕不另行通知。
All data, images and content in this document are for reference only. Actual function, cost and specification etc. (included but not limited to appearance, color and size) as well as content shown (included but not limited to background, UI and icons) may be subjected to changes according to time and actual situation. All data included in this document are compared with market products under specific circumstances. Theoretical values were attained by test under specific conditions at internal laboratory. For example, actual charging time and compatibility of Fast Charging Protocol are subjected to changes under different conditions, thus may leading to differ in results. Different software updates, application conditions and environment factor in individual product may lead to differ in experimental results. All data may differ from actual application and subjected to terms and conditions, please refer to details and specifications herein. We reserve the right to make changes at any time, of any products or specifications herein, without further notice.