

This is an upgraded version of DDTC12UA TYPE-C boost module designed and produced by eletechsup. It supports TYPE-C TO TYPE-C power supply

Features:

DC DC Boost Converter Module working frequency 1200KHZ.

Supports almost all TYPE-C power inputs(QC PD)

Up to 94% Efficiency (usually is 83%-93%)

Quiescent Current (PFM) : 0.1uA

Quiescent Current (PWM): 1.5mA

Automatic Pulse Frequency Modulation Mode at Light Loads

Under voltage lockout,Current limiting,Thermal overload protection

Operating temperature range : -40~+125 Degrees Celsius

Storage temperature range : -65~+150 Degrees Celsius

Size : 31mm x 11.5mm x 4.6mm

Weight : 2g

Output 6V :

Input voltage DC 4.5 ~ 5.2V,output DC 6V $\pm$ 2%

Maximum output : 6V/1500MA

Input DC 5V 1.32A,Output 6V 1.00A;

Input DC 5V 1.63A,Output 6V 1.20A;

Input DC 5V 2.00A,Output 6V 1.50A;

Output 9V :

Input voltage DC 4.5 ~ 8V,output DC 9V $\pm$ 2%

Maximum output : 9V/1000MA(See the table below for details)

Input DC 5V 1.00A,Output 9V 0.52A;

Input DC 5V 1.50A,Output 9V 0.76A;

Input DC 5V 2.00A,Output 9V 1.00A;

Output 12V :

Input voltage DC 4.5 ~ 11V,output DC 12V $\pm$ 2%

Maximum output : 12V/750MA(See the table below for details)

Input DC 5V 1.00A,Output 12V 0.39A;

Input DC 5V 1.50A,Output 12V 0.57A;

Input DC 5V 2.00A,Output 12V 0.75A;

Output 15V :

Input voltage DC 4.5 ~ 14V,output DC 15V $\pm$ 2%

Maximum output : 15V/600MA(See the table below for details)

Input DC 5V 1.00A,Output 15V 0.31A;

Input DC 5V 1.50A,Output 15V 0.45A;

Input DC 5V 2.00A,Output 15V 0.60A;

Output 24V :

Input voltage DC 4.5 ~ 18V,output DC 24V $\pm$ 2%

Maximum output : 24V/300MA(See the table below for details)

Input DC 5V 1.00A,Output 24V 0.19A;

Input DC 5V 1.50A,Output 24V 0.27A;

Input DC 5V 1.60A,Output 24V 0.30A;

Applications

Lion lipo Battery powered equipment

Instrumentation, Multimeter

Type-c USB equipment

Small power motors

PTZ Camera webcam

IP Camera

Toy car boat

Model aircraft

Power Bank Diy

Solar battery

LED Motor

WIFI Router

PLC RS485 devices

Attention :

This is a DC-DC voltage converter module, Must be noted when using

1 Input voltage can not be greater than the maximum input range

2 Output power can not be greater than the maximum load for a long time

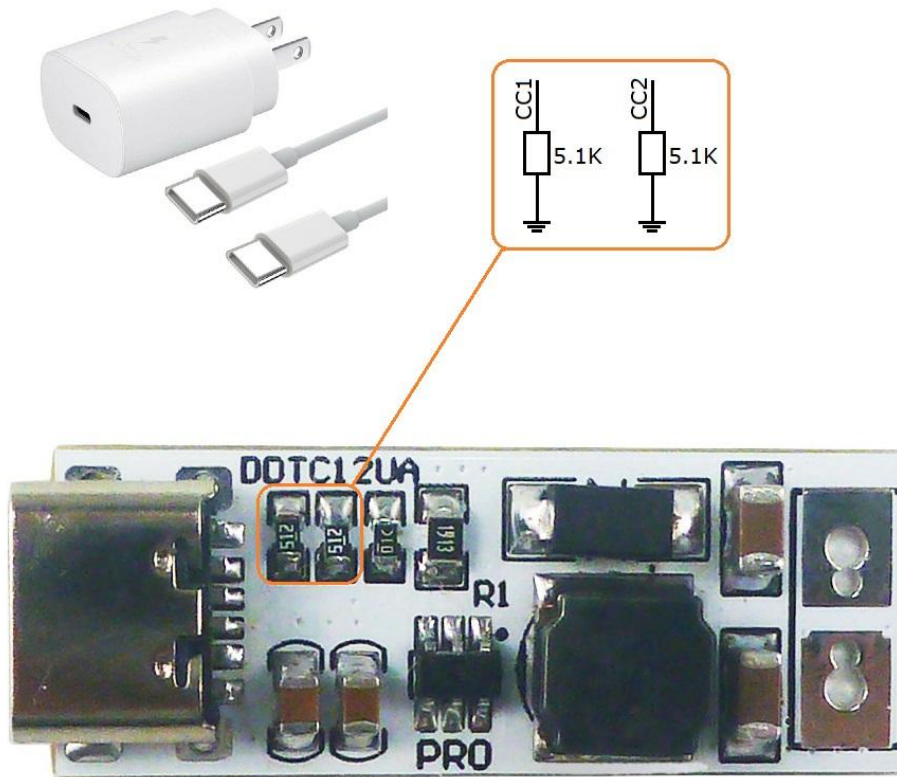
3 Input power must be greater than the output power, because the power consumption of the module itself

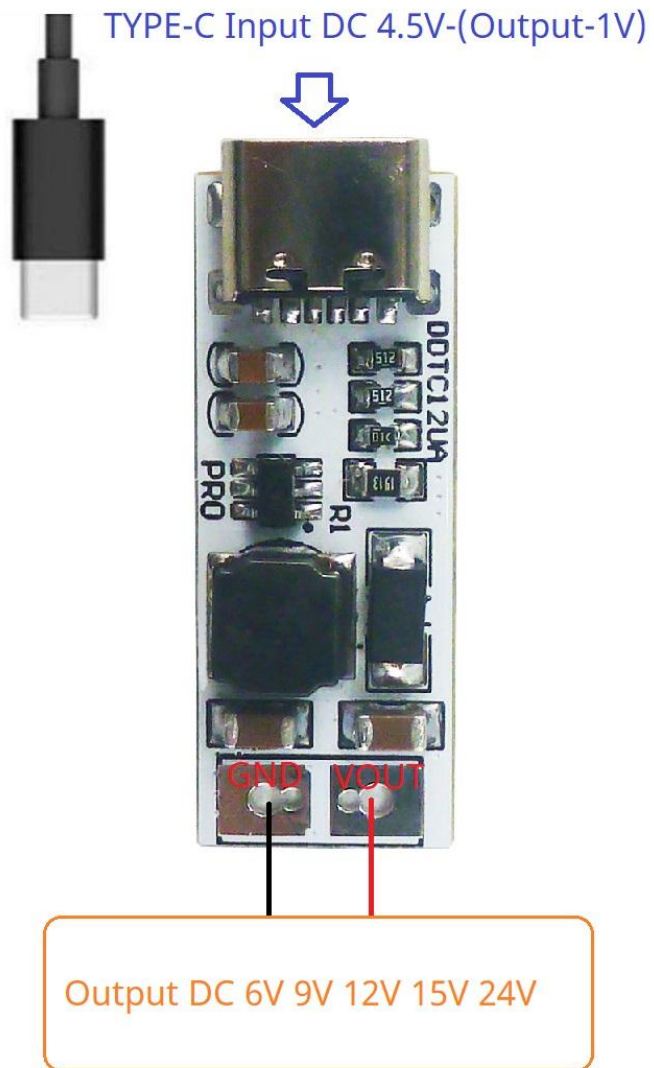
Q & A:

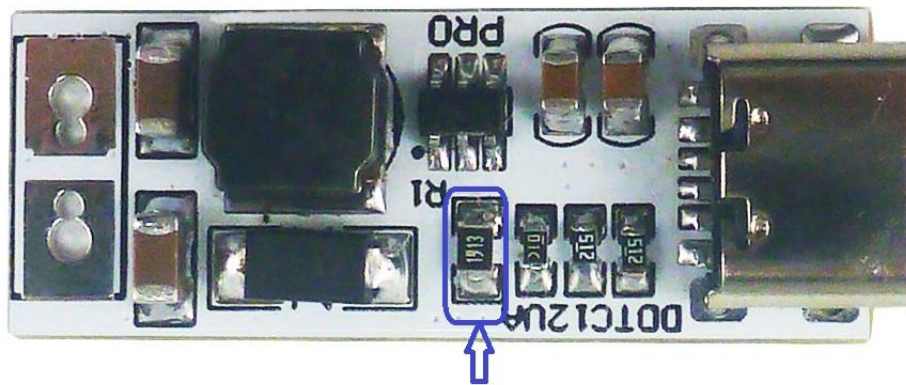
Q : Why output voltage is less than the nominal voltage

A : Input power supply power is too low. Test the input voltage with a multimeter, at this time of the input voltage is very low

CC1 CC2 is connected to a 5.1K pull-down resistor, and supports TYPE-C chargers to output 5V.







Changing the value of R1 can change the output voltage

$$R1(K\Omega) = 10 * (V_{out} / 0.6 - 1)$$

If you do not find the voltage version you need, you can change the output voltage through R1.

R1	V _{OUT}
91K _Ω	6V _⊕
115K _Ω	7.5V _⊕
140K _Ω	9V _⊕
158K _Ω	10V _⊕
191K _Ω	12V _⊕
243K _Ω	15V _⊕
294K _Ω	18V _⊕
392K _Ω	24V _⊕