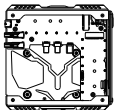




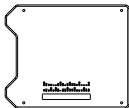
PiTower Gen 2 Assembly Guide



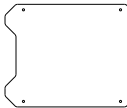
Accessory List



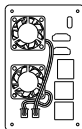
Enclosure Main Body



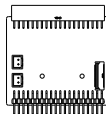
Front Acrylic Board



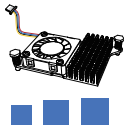
Rear Acrylic Board



RPi5 Interface Board



PiTower Gen2-PRD
-GPIO Board



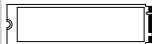
RPi5 Cooler



RPi5(Need to be
purchased separately)



SD Card(Need to be
purchased separately)



SSD(Need to be
purchased separately)



CR1220 Battery



16P_Cable_35mm



Screwdriver



M2*8_Screw x 12

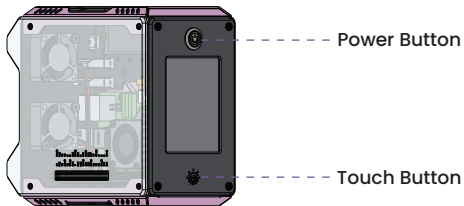


M2*4_Screw x 6



M2*3_Screw x 2

Button Functions



Power Button

Single Click	Power on
Press and hold 3~5s	Power off
Press and hold 10s	Force power off (use in case of system bugs, etc)

Touch Button

Single Click	Turn LCD on/off
Quick Double-click	Turn ambient lights on/off

Parameter & Firmware Installation

Product Name	PiTower Gen 2
SBC	Support Raspberry Pi 5
NVMe SSD	Support 2230, 2242, 2260, 2280
Display	2.8" IPS LCD Screen
Resolution	240*320
Brightness	200 cd/m ²
Function	Dedicated secondary display only for real-time monitoring of the PiTower Gen 2 & Raspberry Pi operating status, not as a main interactive touch screen
Material	Aluminum Alloy, Acrylic Panel
Dimensions	134.5*127*76mm
Weight	384.5g

Firmware Installation

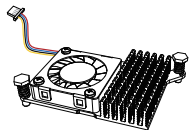
Before initial startup, please download and import the firmware to the SD card or SSD by using the web link provided below or by scanning the QR code. Otherwise, the button functions and LCD display will not operate correctly, which will affect your user experience.

Firmware, system services, and installation QR code/link:

https://github.com/Elecrow-RD/PiTower_Gen2



01 Component I Installation



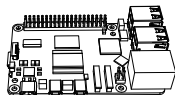
RPI5 Cooler



White Rivet



Thermal conductive silicone

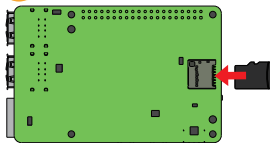


Raspberry Pi 5



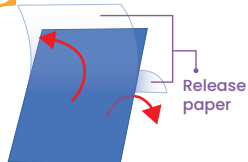
SD Card (If installing firmware using an SD card)

01



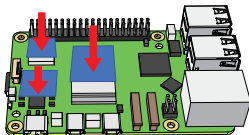
Insert the SD card

02



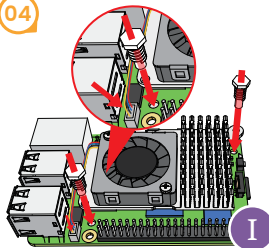
Release Paper

03



Apply the thermal conductive silicone as shown in the diagram

04



Insert the rivets and connect the RPI5 Cooler power cable

Define the final assembly as Component I

02 Component II Installation



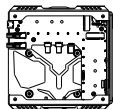
CR1220 Battery



SSD (If installing firmware using SSD)

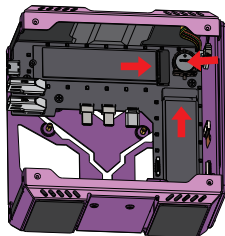


M2*3_Screw x 2



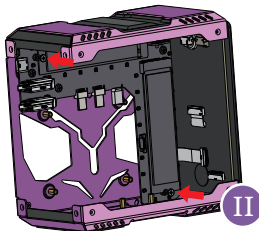
Enclosure Main Body

01



Install the CR1220 Battery and the SSD

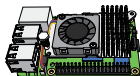
02



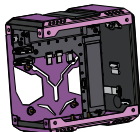
Secure the SSD with M2*3 screws

Define the final assembly as Component II

03 Component III Installation



Component I



Component II



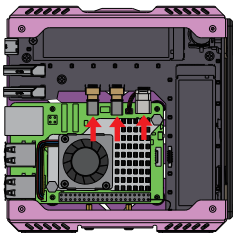
PiTower Gen2-PRD-GPIO
Board



×6

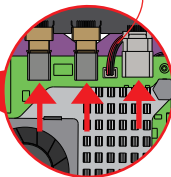
M2*4_Screw x 6

01

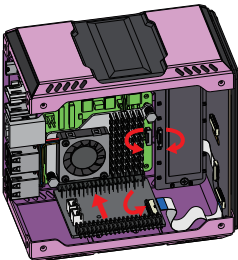


Connect Component I and Component II

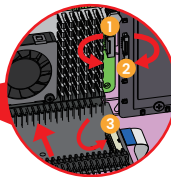
The BAT cable is routed out from here.



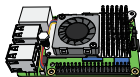
02



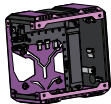
Connect the PiTower Gen2-PRD-GPIO Board to the Raspberry Pi.
Next, lift the ① ② ③ wiring bases



03 Component III Installation



Component I



Component II



PiTower Gen2-PRD-GPIO Board



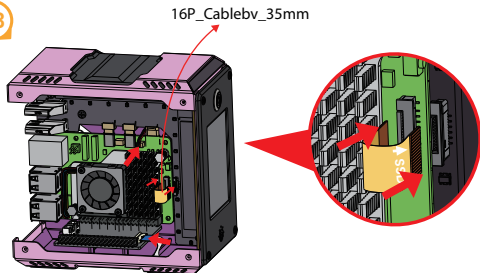
×6

M2*4_Screw x 6



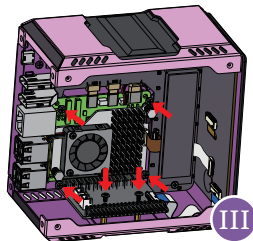
16P_Cable_35mm

03



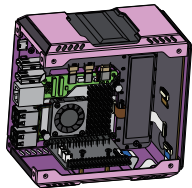
Wire it as shown in the diagram, then close the base.

04

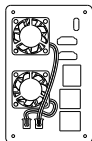


Secure with M2*4 screws at each marked position.
Final assembly is defined as Component III

04 Component IV Installation



Component III



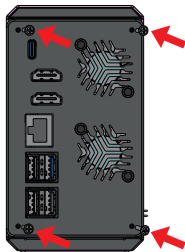
RPI5 Interface Board



×4

M2*8_Screw x 4

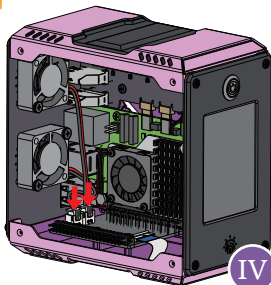
01



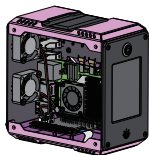
Secure with M2*8 screws
(in each position)

02

Connect each fan cable securely.
The final assembly is defined as
Component IV.



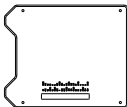
05 Component V Installation



Component IV



Rear Acrylic Board



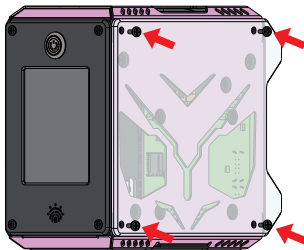
Front Acrylic Board



×8

M2*8_Screw x 8

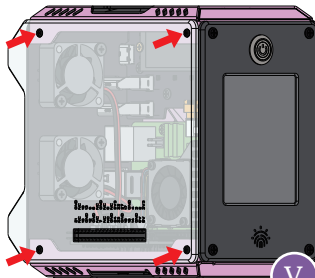
01



Install the Rear Acrylic Board

02

Install the Front Acrylic Board



Assembly complete!

V