



Rocket 1604L (R1604L)

4x NVMe Port to PCIe 5.0 x16 NVMe Switch AIC



Quick Installation Guide

V1.01

System Requirements

PC Requirements

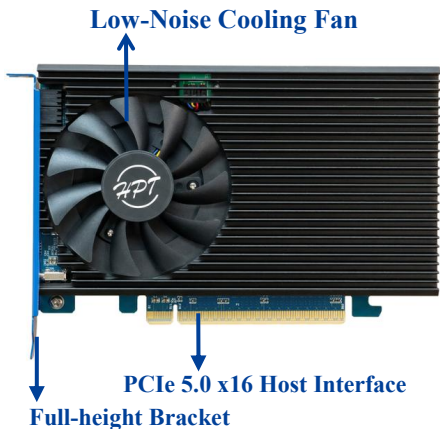
- System with a free PCIe5.0 (or 3.0 or 4.0) x16 slot
- All the Operating Systems with a native NVMe Driver

R1604L Kit Content

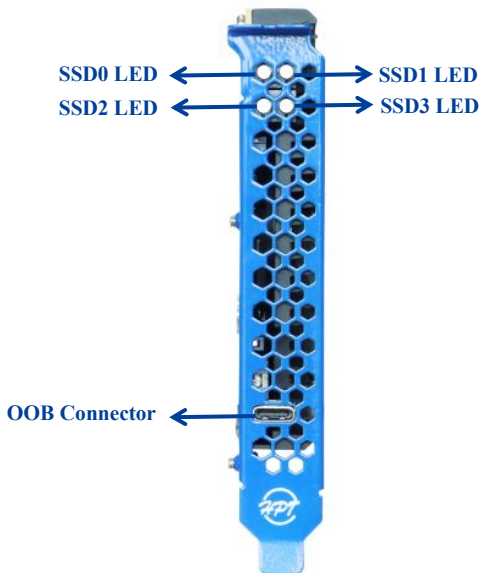
- 1x R1604L NVMe Switch AIC
- 1x Quick Installation Guide
- 4x Additional M.2 Rubbers
- 1x K=8, Gray 70mm*90mm*0.75mm Thermal PAD
- 1x K=8, Gray 70mm*90mm*1mm Thermal PAD
- 1x K=3, Blue 70mm*90mm*1.5mm Thermal PAD

R1604L Hardware

Front View



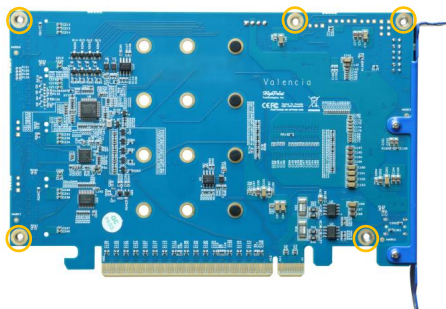
LED View



Note: Please refer to the R1604L NVMe Switch AIC User Guide on the official website for details on LED status and OOB functions.

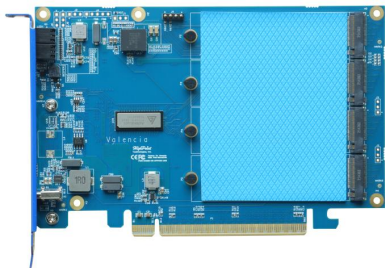
Hardware Installation

1. Use a wired ESD wrist strap that is properly grounded.
2. Unpack and remove the R1604L and check it for damage. If it appears damaged, please get in touch with HighPoint Technical Support.
3. Remove the five screws on the back of the R1604L that secure the heat sink to the PCB and lift the heat sink up from the right side to remove it.

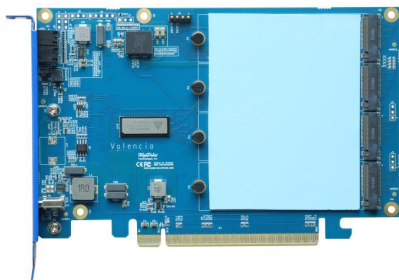


4. Install the thermal pad onto the R1604L PCB.
Note: Omission of the thermal pad on the R1604L PCB is permissible if your disk exhibits adequate heat dissipation.

- 1) Remove the blue film from one side of the thermal pad.
- 2) Align the thermal pad with the M.2 port and press gently to ensure a tight fit.

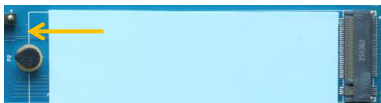


- 3) Remove the blue film from the other side of the thermal pad.



5. Install the NVMe SSDs in the R1604L.

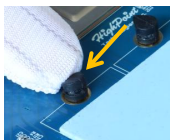
- 1) Confirm the direction of the rubber (pointing in the opposite direction of the M.2 port).



- 2) Gently insert the NVMe SSD into the M.2 connector.



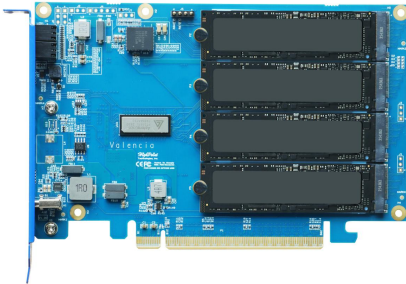
- 3) Press the side of the rubber to align it and insert it into the retention hole on the end of the NVMe SSD.



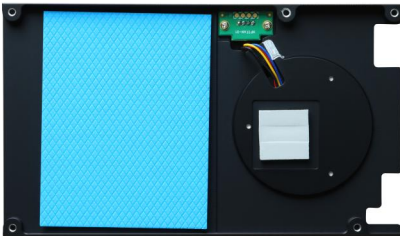
- 4) Rotate the direction of the rubber so that it points to the M.2 port to secure the NVMe SSD better.



- 5) Repeat the above steps to install the remaining NVMe SSDs.



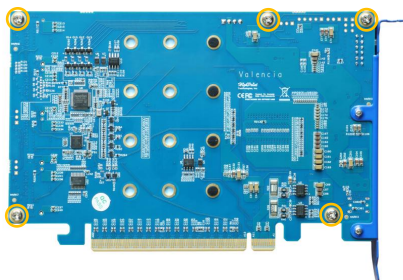
6. Install the heat sink on the R1604L heat sink.
 - 1) Align the thermal pad and press gently to ensure a tight fit.



- 2) Remove the blue film from the thermal pad on the heat sink.



- 3) Align the left side of the heat sink with the PCB, then carefully lower the right side to seat it properly.
- 4) Re-tighten the five screws removed in step 3.



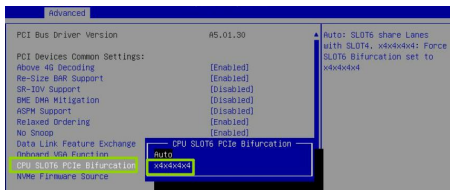
Note: If the screws are not tightened, the fan will stall, heat dissipation will be poor, and other issues may arise.

7. Insert the R1604L into an available PCIe slot.
 - 1) Shut down the system and disconnect the AC power cord.
 - 2) Align the R1604L to one of the motherboard's available slots. Press down gently but firmly to seat the R1604L correctly in the slot.



8. Set the motherboard's PCIe Bifurcation Configuration.
Using a Supermicro motherboard as an example:
 - 1) Enter BIOS Setup by pressing **Del** or **F2** during boot.
 - 2) Navigate to **Advanced** → **PCIe/PCI/PnP Configuration** → **PCIe slot# Configuration**.
 - 3) Locate the setting for your target PCIe x16 slot.

- 4) Change the mode from **Auto** to your desired split (e.g., **x4x4x4x4**).



- 5) Save & Exit and reboot.

Notes:

PCIe Bifurcation is a BIOS setting. Consult your motherboard manual for support and path, as incorrect settings will prevent device detection.

Paths vary by motherboard. This is a common, not universal, path. Consult your motherboard manual for the exact location.

Resources

Various guides are available for the R1604L.

For Documentation and more information about this product, please visit the following website:

<https://www.highpoint-tech.com/nvme-switch-aic/gen5/rocket-1604l>

Customer Support

If you encounter any problems while utilizing the R1604L or have questions about this or any other HighPoint Technologies, Inc. product, please contact our Customer Support Department.

Web Support:

<https://www.highpoint-tech.com/support-and-services>

HighPoint Technologies, Inc. websites:

<https://www.highpoint-tech.com>