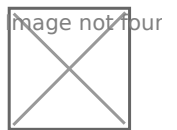


# Physical Hardware

## Basic Components

### Compute

#### Processor



[AMD Ryzen 3 3200G](#) - Economical CPU that has 4 cores and integrated graphics so a PCIe slot can be saved since a GPU isn't necessary.

<b>Cores / Threads</b>	4 / 4
<b>Base Frequency</b>	3.6 GHz
<b>Burst Frequency</b>	4.0 GHz
<b>Cache</b>	4MB L3 Cache
<b>TDP</b>	65W







#### Motherboard

[Asrock B450M Steel Legend](#) - Small form factor mATX board that is being reused from a prototyping project. Being an mATX board it is very limited in expansion.

<b>Manufacturer</b>	Asrock
<b>Model</b>	B450M Steel Legend
<b>CPU</b>	AMD AM4 Socket
<b>Chipset</b>	AMD Promontory B450
<b>Memory</b>	<ul style="list-style-type: none"><li>• 4x DDR4 DIMM supporting up to 64GB</li><li>• Dual channel memory architecture</li></ul>

Display	<ul style="list-style-type: none"> <li>• 1x HDMI 1.4</li> <li>• 1x DisplayPort 1.2</li> </ul>
Networking	<ul style="list-style-type: none"> <li>• 1x Realtek RTL8111H 1GbE LAN</li> </ul>
Expansion	<ul style="list-style-type: none"> <li>• 1x PCIe 3.0 x16</li> <li>• 1x PCIe 2.0 x16</li> <li>• 1x PCIe 2.0 x1</li> </ul>
Storage	<ul style="list-style-type: none"> <li>• 1x M.2 PCIe x4/x2</li> <li>• 1x M.2 SATA x4/x2</li> <li>• 4x SATA3</li> </ul>
USB	<ul style="list-style-type: none"> <li>• 1x USB 3.1 Gen 2 (Type-C)</li> <li>• 1x USB 3.1 Gen 2 (Type-A)</li> <li>• 4x USB 3.1 Gen 1 (Type-A)</li> <li>• 2x USB 2.0</li> </ul>

# Memory

Slot 1	<div> <div>image not found or type unknown</div>  </div>	Corsair Vengeance LPX 8GB DDR4 2666MHz (1x8GB) <ul style="list-style-type: none"> <li>• 2Rx8 Dual Rank</li> <li>• CAS Latency 16</li> <li>• timing 16-18-18-35</li> <li>• 1.2V</li> </ul>
Slot 2	<div> <div>image not found or type unknown</div>  </div>	Corsair Vengeance LPX 8GB DDR4 2666MHz (1x8GB) <ul style="list-style-type: none"> <li>• 2Rx8 Dual Rank</li> <li>• CAS Latency 16</li> <li>• timing 16-18-18-35</li> <li>• 1.2V</li> </ul>
Slot 3	<div> <div>image not found or type unknown</div>  </div>	Corsair Vengeance LPX 8GB DDR4 2666MHz (1x8GB) <ul style="list-style-type: none"> <li>• 2Rx8 Dual Rank</li> <li>• CAS Latency 16</li> <li>• timing 16-18-18-35</li> <li>• 1.2V</li> </ul>
Slot 4	<div> <div>image not found or type unknown</div>  </div>	Corsair Vengeance LPX 8GB DDR4 2666MHz (1x8GB) <ul style="list-style-type: none"> <li>• 2Rx8 Dual Rank</li> <li>• CAS Latency 16</li> <li>• timing 16-18-18-35</li> <li>• 1.2V</li> </ul>







# Case

Fractal Design - Define Mini C (Blackout) - A fantastic case with an attractive minimalistic design that in a mATX form factor.

Manufacturer	Fractal Design
Model	Define Mini C (Blackout)
Features	<ul style="list-style-type: none"><li>• Sound dampening panels</li><li>• Excellent build quality</li><li>• 2x 3.5" Drive Bays</li><li>• 2x 2.5" Drive Bays</li></ul>

# Storage

#	Capacity	Interface	Type	Manufacturer & Model	Speed
1x 	256GB or type unknown	NVMe	SSD	Western Digital Black WDS256G1X0C	PCIe 3.0 x2
2x 	512GB or type unknown	SATA	SDD	Crucial MX100	SATA3 6.0Gb/s
1x 	1TB or type unknown	SATA	HDD	Western Digital WD10EZEX	SATA3 6.0Gb/s
1x 	1TB or type unknown	SATA	HDD	Seagate ST1000DM003	SATA3 6.0Gb/s

# Cooling

CPU 	AMD Wraith Spire
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Case (Front)	 image not found or type unknown	Noctua NF-A14 PWM 140mm
Case (front)	 image not found or type unknown	Noctua NF-F12 PWM 120mm
Case (rear)	 image not found or type unknown	Noctua NF-F12 PWM 120mm



# Power Supply

Manufacturer	EVGA
Model	SuperNOVA 550 G2
Features	<ul style="list-style-type: none"><li>• 550W</li><li>• fully module</li></ul>

# UPS

n/a

# Add-On Cards

PCI 3.0 x16	 Radeon RX 560 Gaming OC 4G (rev. 1.0) <ul style="list-style-type: none"><li>• PCIe Gen3 x8</li></ul>
PCI 3.0 x1	 Inateck 4 Ports PCIe to USB 3.0 <ul style="list-style-type: none"><li>• PCIe Gen3 x1</li></ul>

**PCI 2.0 x16**



**10Gtek Intel 82599ES SFP+ PCIe x8**

- PCIe Gen3 x8
- SFP+ 10GbE port
- SR-IOV

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