

# How To: PC Building Parts

### PC Case

Supported Motherboard Size

Small Form Factor	Mini-Tower	Mid-Tower	Full-Tower
• Mini-ITX	• Mini-ITX • MicroATX	• Mini-ITX • MicroATX • ATX	• Mini-ITX • MicroATX • ATX • EATX

### Storage

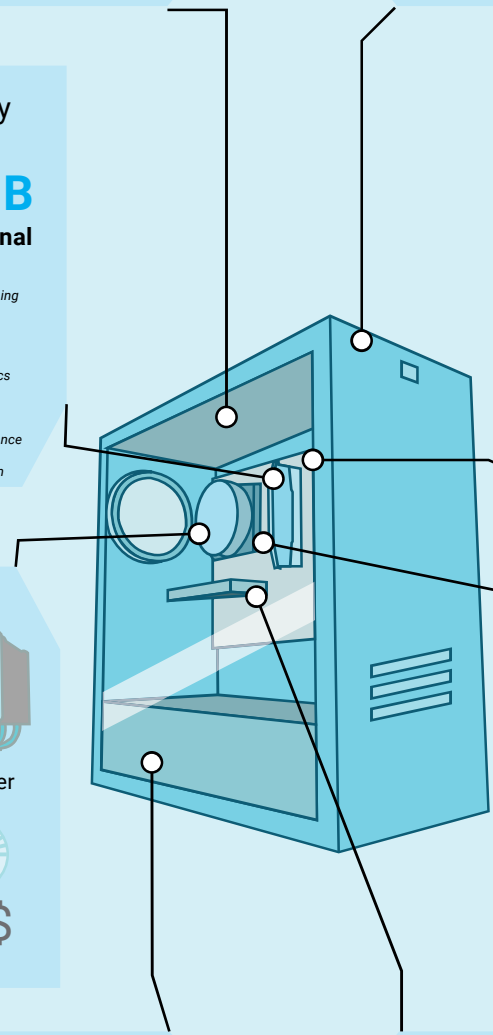
HDD (Hard Disk Drive)	SSD (Solid State Drive)	NVMe (Nonvolatile Memory Express)
Read/Write Speed: \$\$\$	Read/Write Speed: \$\$\$	Read/Write Speed: \$\$\$

### RAM - Random Access Memory

8GB Casual User	16GB Intermediate User	32GB Professional User
<ul style="list-style-type: none"> <li>• Internet Browsing</li> <li>• Email</li> <li>• Videos</li> <li>• Music</li> </ul>	<ul style="list-style-type: none"> <li>• Internet Browsing</li> <li>• Email</li> <li>• Videos</li> <li>• Music</li> <li>• Spreadsheets</li> <li>• Simple Graphics Programs</li> <li>• Flash Games</li> <li>• Music</li> <li>• High Performance Gaming</li> <li>• Graphic Design</li> </ul>	<ul style="list-style-type: none"> <li>• Internet Browsing</li> <li>• Email</li> <li>• Videos</li> <li>• Music</li> <li>• Spreadsheets</li> <li>• Simple Graphics Programs</li> <li>• Flash Games</li> <li>• Music</li> <li>• High Performance Gaming</li> <li>• Graphic Design</li> </ul>

### Motherboard (Most components connect to this)

Mini-ITX	Micro ATX (mATX)	ATX	Extended ATX (EATX)
<ul style="list-style-type: none"> <li>+ Compact</li> <li>- Limited ports (USB, Ethernet, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>+ Adequate ports</li> </ul>	<ul style="list-style-type: none"> <li>+ Complete set of ports</li> </ul>	<ul style="list-style-type: none"> <li>+ Possibly more RAM slots</li> <li>- More expensive without much added value</li> </ul>



### CPU Cooler

Custom Water Cooling (Tank of Liquid in PC)	All-in-One (AIO) Water Cooling	Air Cooler
Cooling Performance: \$\$\$	Cooling Performance: \$\$\$	Cooling Performance: \$\$\$

### CPU - Central Processing Unit (More Speed = Higher Speed for Productivity Applications)

	Intel	AMD
High Speed	i9	Ryzen 9
Medium Speed	i7	Ryzen 7
Low Speed	i5	Ryzen 5
Lowest Speed	i3	Ryzen 3

### PSU - Power Supply Unit

Power Efficiency Rating

Best ↑

- 80 PLUS Titanium
- 80 PLUS Platinum
- 80 PLUS Gold
- 80 PLUS Silver
- 80 PLUS Bronze

↓ Worst

• 80 PLUS

### GPU - Graphics Processing Unit (Higher Performance Tier = Higher Gaming Capability)

NVIDIA		AMD	
GTX 950	Performance Tier (Higher = Faster)	RX 250	Performance Tier (Higher = Faster) Note: '50' = '500'
GTX 4090	Generation Number (Higher = Newer)	RX 6500	Generation Number (Higher = Newer)

### Panel Technology Types

TN (Recommended for Gaming)	VA (Recommended for General Use)	IPS (Recommended for Professional Use)
Worst Color	Best Color Contrast	Best Color

### Monitor

Hz (FPS)

0:00s | 1:00s

60

144

240