

## Dell SBR68

# Dell Precision 5820 MT Tower Workstation User Manual

Model: Precision 5820

## INTRODUCTION

This manual provides essential information for the setup, operation, maintenance, and troubleshooting of your Dell Precision 5820 MT Tower Workstation. The Dell Precision 5820 MT Tower is a high-performance workstation designed for demanding professional applications, featuring an Intel Core i9-10900X processor, 16GB DDR4 RAM, a 256GB SSD, and an AMD Radeon Pro WX3200 graphics card, running Windows 10 Pro.



Figure 1: Front view of the Dell Precision 5820 MT Tower Workstation.

## COMPONENTS OVERVIEW

Familiarize yourself with the external components and ports of your workstation.



Figure 2: Front and rear view with numbered components and ports.

### Front Panel Components:

1. Power Button
2. Optical Drive (8X DVD+/-RW Slimline)
3. USB 3.0 Ports
4. USB 2.0 Ports
5. Headphone Jack
6. Microphone Jack
7. SD Card Reader (if equipped)
8. Front Air Vent

### Rear Panel Components:

16. Power Connector
17. Power Supply Unit (PSU)
18. USB 3.0 Ports
19. USB 2.0 Ports
20. Ethernet Port (RJ-45)
21. Audio Line-out Port
22. Audio Line-in Port

23. DisplayPort / HDMI (depending on graphics card)

24. Expansion Card Slots

## SETUP INSTRUCTIONS

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Follow these steps to set up your Dell Precision 5820 MT Tower Workstation.

1. **Unpack the Workstation:** Carefully remove the workstation and all accessories from the packaging. Ensure all components listed in the packing slip are present.
2. **Position the Workstation:** Place the tower on a stable, flat surface with adequate ventilation. Avoid blocking air vents.
3. **Connect Peripherals:**
  - Connect the Dell KB216 Wired Keyboard to an available USB port.
  - Connect the Dell MS116 Wired Mouse to an available USB port.
  - Connect your monitor(s) to the appropriate display ports on the AMD Radeon Pro WX3200 graphics card (e.g., mDP ports). Use adapters if necessary.
  - Connect any other peripherals such as external drives, printers, or network cables.
4. **Connect Power:** Plug the power cable into the power connector on the rear of the workstation, then plug the other end into a grounded electrical outlet or surge protector.
5. **Initial Power On:** Press the power button on the front panel. The system will boot up, and Windows 10 Pro will begin its initial setup process. Follow the on-screen instructions to complete the operating system configuration.

## OPERATING INSTRUCTIONS

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This section covers basic operation of your Dell Precision 5820 MT Tower.

### Powering On and Off:

- **To Power On:** Press the power button on the front of the tower.
- **To Shut Down:** In Windows 10 Pro, click the *Start* button, then *Power*, and select *Shut down*. This ensures all applications are closed properly and data is saved.
- **To Restart:** In Windows 10 Pro, click the *Start* button, then *Power*, and select *Restart*.
- **To Sleep:** In Windows 10 Pro, click the *Start* button, then *Power*, and select *Sleep*.

### Using the Optical Drive:

The 8X DVD+/-RW Slimline drive allows you to read and write CDs and DVDs.

- **To Open:** Press the eject button on the optical drive bezel.
- **To Insert:** Place a disc onto the tray with the label side up and gently push the tray back into the drive until it clicks.

### Connecting to a Network:

- **Wired Connection:** Connect an Ethernet cable from your router or network switch to the Ethernet port on the rear of the workstation.
- **Wireless Connection:** The workstation includes an Intel Dual Band Wireless AC 8265 (802.11ac) module. In Windows 10 Pro, click the network icon in the taskbar, select your Wi-Fi network, and enter the password if

prompted.

## MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your workstation.

- **Keep Vents Clear:** Ensure that the air vents on the front, rear, and sides of the tower are not obstructed to allow for proper airflow and prevent overheating.
- **Clean Regularly:** Use a soft, dry cloth to clean the exterior of the tower. For dust accumulation in vents, use compressed air. *Always power off and unplug the workstation before cleaning.*
- **Software Updates:** Regularly check for and install updates for Windows 10 Pro, device drivers (especially graphics drivers), and Dell system utilities to maintain security and performance.
- **Data Backup:** Periodically back up important data to an external drive or cloud storage to prevent data loss.



Figure 3: Exploded view showing internal components for maintenance and upgrades.

## TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Workstation does not power on.	No power, loose connections.	<ul style="list-style-type: none"><li>• Ensure the power cable is securely connected to both the workstation and the electrical outlet.</li><li>• Verify the power outlet is functional.</li><li>• Check the power supply unit (PSU) switch if present.</li></ul>

Problem	Possible Cause	Solution
No display on monitor.	Incorrect cable connection, monitor off, incorrect input.	<ul style="list-style-type: none"> <li>Ensure the monitor is powered on and connected to the graphics card ports (AMD Radeon Pro WX3200).</li> <li>Verify the monitor's input source is set correctly.</li> <li>Try a different display cable or monitor if available.</li> </ul>
System is slow or unresponsive.	Too many applications, low disk space, outdated drivers.	<ul style="list-style-type: none"> <li>Close unnecessary applications.</li> <li>Check available disk space on the 256GB SSD.</li> <li>Update Windows 10 Pro and graphics drivers.</li> <li>Run a system diagnostic tool.</li> </ul>
Peripheral (keyboard/mouse) not working.	Loose connection, driver issue.	<ul style="list-style-type: none"> <li>Ensure the peripheral is securely plugged into a USB port.</li> <li>Try a different USB port.</li> <li>Restart the workstation.</li> <li>Check Device Manager in Windows for driver issues.</li> </ul>

## SPECIFICATIONS

Detailed technical specifications for the Dell Precision 5820 MT Tower Workstation.

<b>Processor</b>	Intel Core i9-10900X (3.7GHz, 4.7GHz Turbo, 10 Cores, 19.25MB Cache, HT, 165W)
<b>Memory</b>	16GB (2x8GB) DDR4 2666MHz UDIMM Non-ECC Memory
<b>Storage</b>	2.5" 256GB SATA Class 20 Solid State Drive (SSD)
<b>Graphics Card</b>	AMD Radeon Pro WX 3200, 4GB GDDR5, 4 mDP (FWS)
<b>Operating System</b>	Windows 10 Pro, 64-bit, English
<b>Wireless Connectivity</b>	Intel Dual Band Wireless AC 8265 (802.11ac) 2x2 + Bluetooth module
<b>Optical Drive</b>	8X DVD+/-RW Slimline
<b>Keyboard</b>	Dell KB216 Wired Keyboard English Black
<b>Mouse</b>	Dell MS116 Wired Mouse Black
<b>Power Supply</b>	950W Chassis CL
<b>Dimensions (Approx.)</b>	27 x 23.6 x 12 inches (Package Dimensions)
<b>Weight (Approx.)</b>	42.4 pounds

## WARRANTY AND SUPPORT

Your Dell Precision 5820 MT Tower Workstation comes with a 3-Year Hardware Warranty with Onsite/In-Home Service after Remote Diagnosis. For technical assistance, warranty claims, or further support, please refer to the official Dell support website or contact Dell customer service.

For the most up-to-date support information, drivers, and documentation, visit [www.dell.com/support](http://www.dell.com/support).

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