

# **Dell Pro Tower Plus**

## **QBT1250**

### **Owner's Manual**

## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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# Dell Pro Tower Plus QB1250

The content in this document is applicable to both Dell Pro Tower Plus and Dell Pro Tower Plus XE5. Dell Pro Tower Plus XE5 is designed for industrial-grade use and can operate in temperatures between 5°C to 45°C (41°F to 113°F).

# Views of Dell Pro Tower Plus QBT1250

## Front

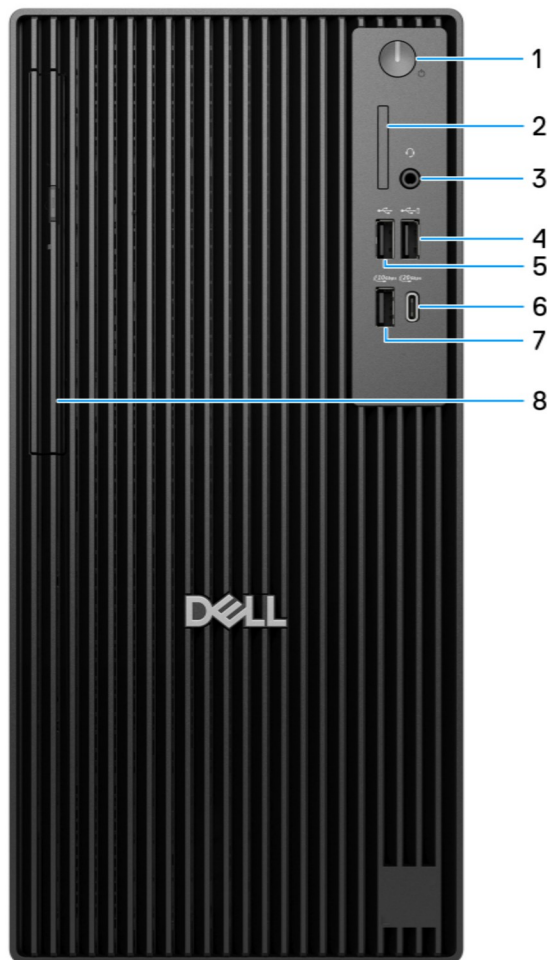


Figure 1. Front view of Dell Pro Tower Plus QBT1250

### 1. Power button with diagnostic LED

Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for four seconds to force shut-down the computer.

**NOTE:** You can customize the power-button behavior in Windows.

### 2. SD-card 4.0 slot (optional)

Reads from and writes to the SD card.

### 3. Global headset jack

Connect headphones or a headset (headphone and microphone combo).

4. **USB 2.0 (480 Mbps) with PowerShare port**

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 480 Mbps.

 **NOTE:** PowerShare enables you to charge your USB devices even when your computer is turned off.

 **NOTE:** If a USB device is connected to the PowerShare port before the computer is turned off or in hibernate state, you must disconnect and connect it again to enable charging.

5. **USB 2.0 (480 Mbps) port**

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 480 Mbps.

6. **USB 3.2 Gen 2x2 (20 Gbps) Type-C port**

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 20 Gbps.

 **NOTE:** This port does not support video/audio streaming.

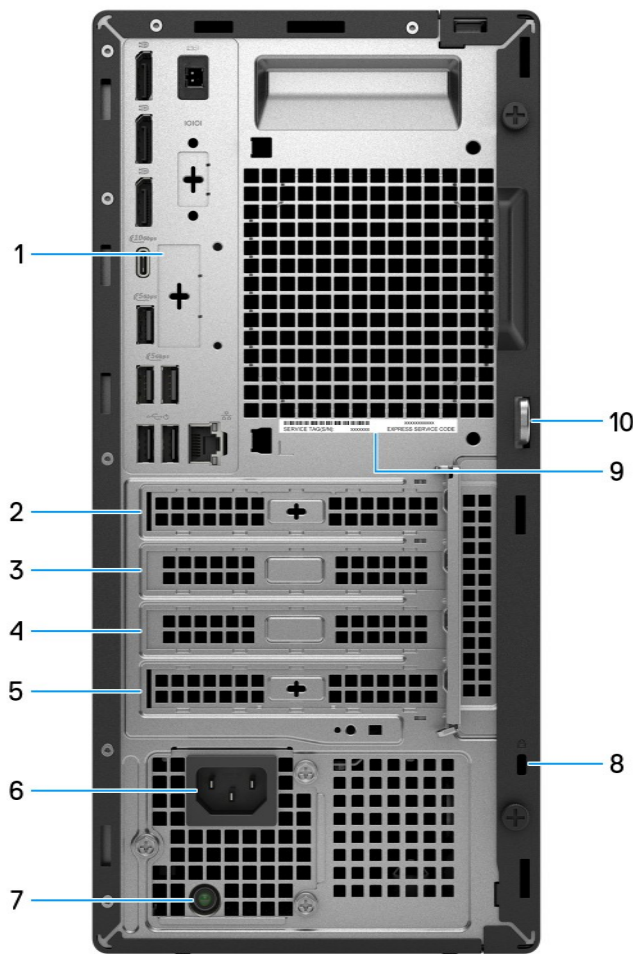
7. **USB 3.2 Gen 2 (10 Gbps) port**

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 10 Gbps.

8. **Slim optical drive (optional)**

Reads from and writes to CDs and DVDs.

# Back



**Figure 2. Back view of Dell Pro Tower Plus QBT1250**

**1. Back panel**

Connect USB, audio, video, and other devices.

**2. Full-height PCIe x1 slot**

Connect a PCI-Express card such as an audio, or network card to enhance the capabilities of your computer.

**3. Full-height PCIe x16 card slot**

Connect a PCI-Express card such as graphics, audio, or network card to enhance the capabilities of your computer.

**4. Full-height PCIe x4 open-end slot**

Connect a PCI-Express card such as an audio, or network card to enhance the capabilities of your computer.

**5. Full-height PCIe x4 slot (optional expansion board)**

Connect a PCI-Express card such as an audio, or network card to enhance the capabilities of your computer.

**6. Power-cord connector port**

Connect a power cable to provide power to your computer.

**7. Power-supply diagnostic light**

Indicates the power-supply state.

**8. Security-cable slot (for Kensington locks)**

Connect a security cable to prevent unauthorized movement of your computer.

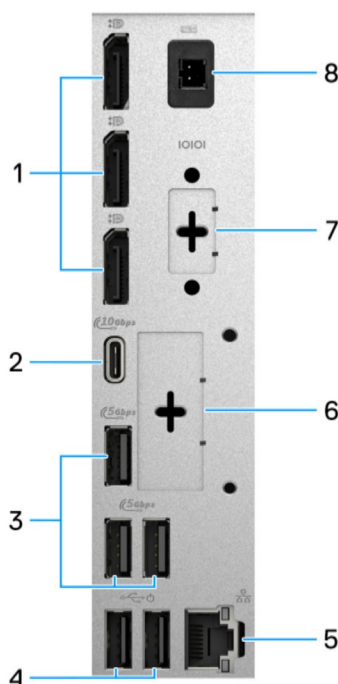
#### 9. **Service Tag label**

The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.

#### 10. **Padlock ring**

Attach a standard padlock to prevent unauthorized access to the interior of your computer.

## Back panel



**Figure 3. Back panel view of Dell Pro Tower Plus QBT1250**

#### 1. **Three DisplayPort 1.4a (HBR3) ports**

Connect an external display or a projector. The maximum resolution that is supported by this port is up to 5120 x 3200 at 60 Hz.

#### 2. **USB 3.2 Gen 2 (10 Gbps) Type-C port**

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 10 Gbps.

#### 3. **Three USB 3.2 Gen 1 (5 Gbps) ports**

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 5 Gbps.

#### 4. **Two USB 2.0 (480 Mbps) with SmartPower On ports**

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 480 Mbps.

**NOTE:** When USB wake is enabled in the BIOS, the computer will turn on or resume from hibernation when a USB device that is connected to this port, such as a mouse or keyboard is used.

#### 5. **RJ45 ethernet port (1 Gbps)**

Connect an RJ45 ethernet cable from a router or a broadband modem for network or Internet access.

#### 6. **Optional port**

The port or ports available at this location may vary depending on the optional-port module that is installed on your computer.

 **NOTE:** Only one of these options can be installed at the location that is shown on your computer.

- **VGA port**

Connect an external display or a projector. The maximum resolution that is supported by this port is up to 1920 x 1200 at 60 Hz.

- **HDMI 2.1 (FRL) port**

Connect to a TV, external display, or another HDMI-in enabled device. The maximum resolution that is supported by this port is up to 5120 x 3200 at 60 Hz.

- **DisplayPort 2.1 (UHBR20) port**

Connect an external display or a projector. The maximum resolution that is supported by this port is up to 7680 x 4320 at 60 Hz.

- **Two USB 3.2 Gen 2 (10 Gbps) ports**

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 10 Gbps.

- **USB 3.2 Gen 2 (10 Gbps) Type-C with DisplayPort alt mode port**

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 10 Gbps. The maximum resolution that is supported by this port is up to 5120 x 3200 at 60 Hz with a Type-C to DisplayPort adapter.

- **One Thunderbolt 4 port + One USB 3.2 Gen 2 (10 Gbps) Type-C port**

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 10 Gbps.

- **RJ45 ethernet port (5 Gbps)**

Connect an RJ45 ethernet cable from a router or a broadband modem for network or Internet access.

- **Fiber optic port (5 Gbps, peer-to-peer)**

Connect a fiber optic cable from a router or a broadband modem for network or Internet access.

 **NOTE:** Supports up to 5 Gbps connectivity on peer-to-peer transmission. Actual speed on the network depends on equipment compatibility, requiring both transceiver and switch at the same maximum speed.

7. **Legacy serial port (optional)**

Connect a peripheral or device to the RS-232 serial port.

8. **Remote-power button port (optional)**

Connect a remote-power button to remotely turn on and off your computer.

 **NOTE:** This port is only available for Dell Pro Tower Plus XE5.

# Top



**Figure 4. Top view of Dell Pro Tower Plus QBT1250**

## 1. MyDell QR code

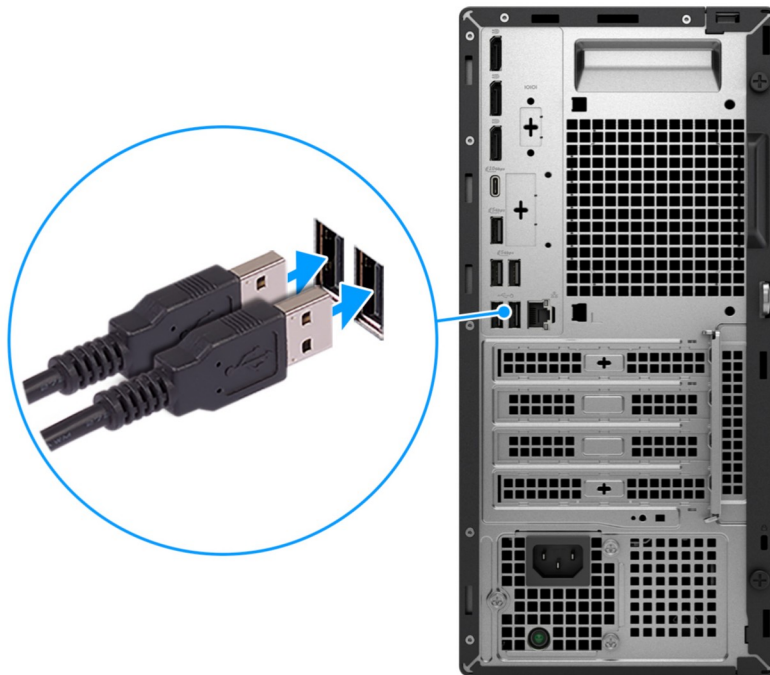
MyDell is your hub for content personalized to your Dell Pro Tower Plus QBT1250, including videos, articles, manuals, and easy access to support.

## Set up your computer

### Steps

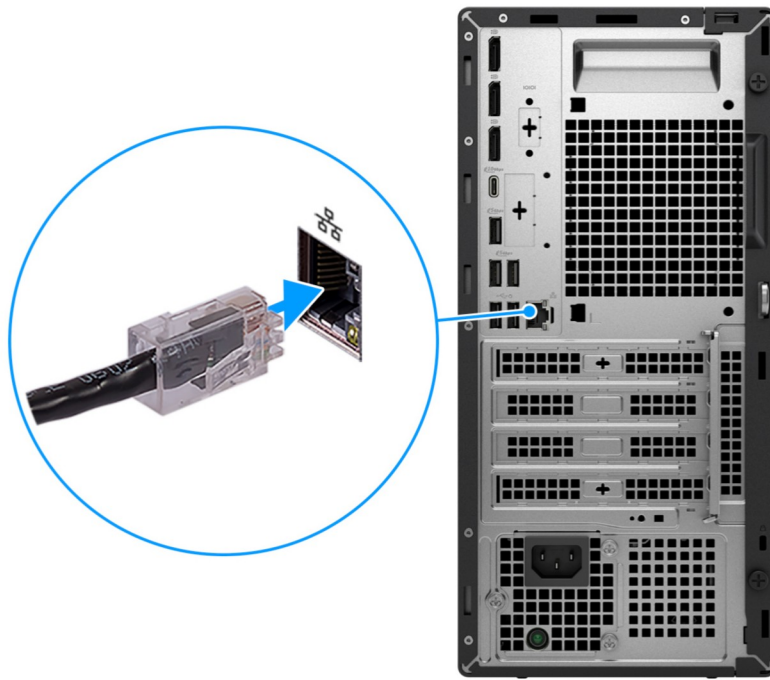
1. Connect the keyboard and mouse.

 **NOTE:** For setup instructions, see the documentation that is shipped with the keyboard and mouse.



**Figure 5. Connecting the keyboard and mouse**

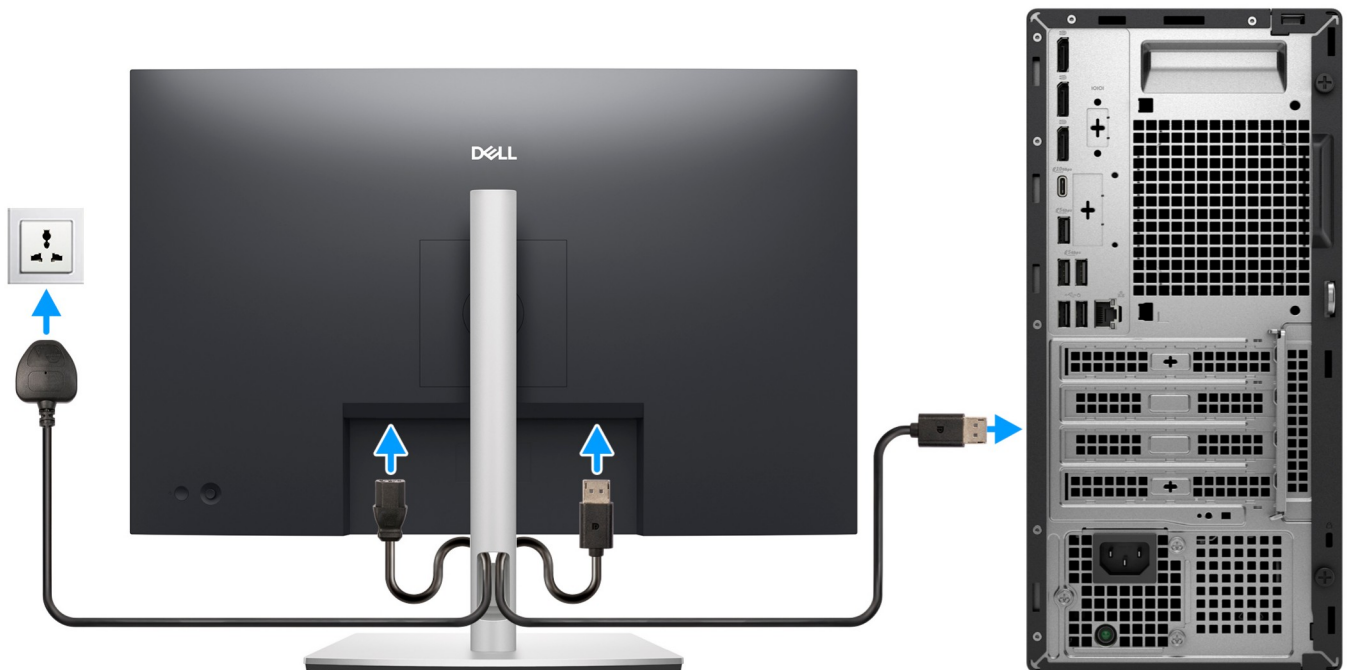
2. Connect to your network using a cable, or connect to a wireless network.



**Figure 6. Connecting the network cable**

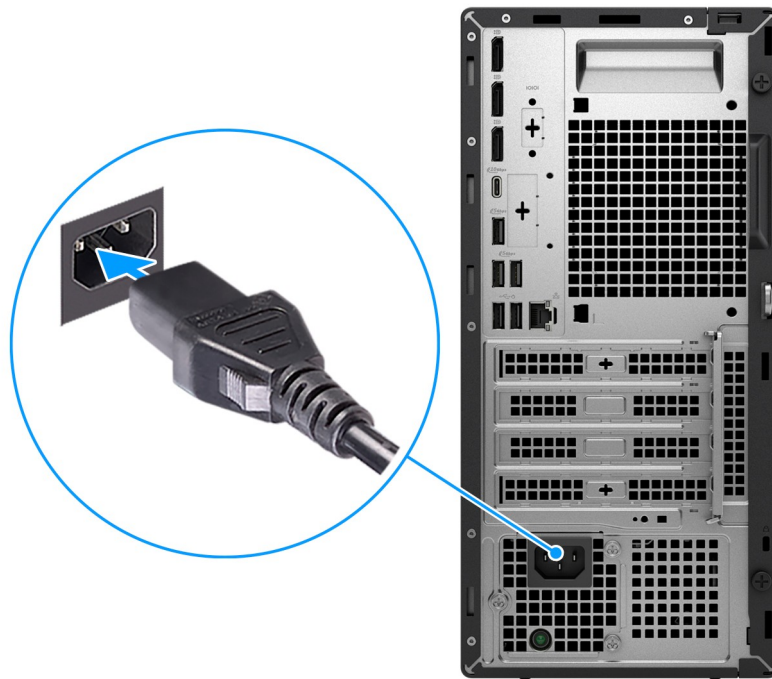
3. Connect the display.

**NOTE:** For improved graphical performance, connect the display to the display ports on the discrete graphics processing unit.



**Figure 7. Connecting the display**

4. Connect the power cable.



**Figure 8. Connecting the power cable**

5. Press the power button.



**Figure 9. Pressing the power button**

6. Finish the operating system setup.

**For Ubuntu:**

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, search in the Knowledge Base Resource at [Dell Support Site](#).

### For Windows:

Follow the on-screen instructions to complete the setup. When setting up, Dell Technologies recommends that you:

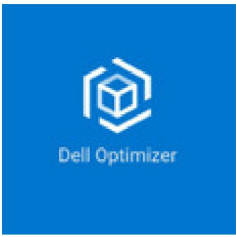
- Connect to a network for Windows updates.



**NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.

- If connected to the Internet, sign-in with or create a Microsoft account. If not connected to the Internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

**Table 1. Locate Dell apps**

| Resources                                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p>Dell Optimizer is an application that is designed to enhance computer performance and productivity by optimizing settings for power, battery, display, collaboration touchpad, and presence detection. It also provides access to applications purchased with your new computer.</p> <p>For more information, see Dell Optimizer User's Guide at <a href="#">Dell Support Site</a>.</p>                                                                                                                                                                                                                                  |
|    | <p><b>Dell Product Registration</b></p> <p>Register your computer with Dell.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|  | <p><b>Dell Help &amp; Support</b></p> <p>Access help and support for your computer.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|  | <p><b>SupportAssist</b></p> <p>SupportAssist is a proactive and predictive technology that offers automated technical support for Dell computers. It proactively monitors both hardware and software, addressing performance issues, preventing security threats, and automating engagement with Dell Technical Support.</p> <p>For more information, see SupportAssist documentation at <a href="#">Dell Support Site</a>.</p> <p> <b>NOTE:</b> In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p> |

# Specifications of Dell Pro Tower Plus QBT1250

## Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell Pro Tower Plus QBT1250.

**Table 2. Dimensions and weight**

| Description                                                                                                                                                                                              | Values                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Height                                                                                                                                                                                                   | 324.30 mm (12.77 in.)                                                                                               |
| Width                                                                                                                                                                                                    | 154 mm (6.06 in.)                                                                                                   |
| Depth                                                                                                                                                                                                    | 293 mm (11.54 in.)                                                                                                  |
| Weight<br> <b>NOTE:</b> The weight of your computer depends on the configuration ordered and manufacturing variability. | <ul style="list-style-type: none"><li>• Minimum: 4.55 kg (10.03 lb)</li><li>• Maximum: 7.17 kg (15.81 lb)</li></ul> |

## Processor

The following table lists the details of the processors that are supported on your Dell Pro Tower Plus QBT1250.

**Table 3. Processor**

| Description                                                                                                                                                                                                                                           | Option one             | Option two             | Option three           | Option four            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| Processor type                                                                                                                                                                                                                                        | Intel Core Ultra 5 235 | Intel Core Ultra 5 245 | Intel Core Ultra 7 265 | Intel Core Ultra 9 285 |
| Processor wattage                                                                                                                                                                                                                                     | 65 W                   | 65 W                   | 65 W                   | 65 W                   |
| Processor total core count                                                                                                                                                                                                                            | 14                     | 14                     | 20                     | 24                     |
| Performance-cores                                                                                                                                                                                                                                     | 6                      | 6                      | 8                      | 8                      |
| Efficient-cores                                                                                                                                                                                                                                       | 8                      | 8                      | 12                     | 16                     |
| Processor total thread count                                                                                                                                                                                                                          | 14                     | 14                     | 20                     | 24                     |
|  <b>NOTE:</b> Intel Hyper-Threading Technology is only available on Performance-cores.                                                                               |                        |                        |                        |                        |
| Processor speed                                                                                                                                                                                                                                       | Up to 5 GHz            | Up to 5.10 GHz         | Up to 5.30 GHz         | Up to 5.60 GHz         |
| Performance-cores frequency                                                                                                                                                                                                                           |                        |                        |                        |                        |
| Processor base frequency                                                                                                                                                                                                                              | 3.40 GHz               | 3.50 GHz               | 2.40 GHz               | 2.50 GHz               |
| Maximum turbo frequency                                                                                                                                                                                                                               | 5 GHz                  | 5.10 GHz               | 5.30 GHz               | 5.60 GHz               |
| Efficient-cores frequency                                                                                                                                                                                                                             |                        |                        |                        |                        |
| Processor base frequency                                                                                                                                                                                                                              | 2.90 GHz               | 3 GHz                  | 1.80 GHz               | 1.90 GHz               |
| Maximum turbo frequency                                                                                                                                                                                                                               | 4.40 GHz               | 4.50 GHz               | 4.60 GHz               | 4.60 GHz               |
| Processor cache                                                                                                                                                                                                                                       | 24 MB                  | 24 MB                  | 30 MB                  | 36 MB                  |
| Integrated graphics                                                                                                                                                                                                                                   | Intel Graphics         | Intel Graphics         | Intel Graphics         | Intel Graphics         |
| AI technology                                                                                                                                                                                                                                         | Intel AI Boost         | Intel AI Boost         | Intel AI Boost         | Intel AI Boost         |
| Neural Processing Unit (NPU) performance                                                                                                                                                                                                              | Up to 13 TOPS          | Up to 13 TOPS          | Up to 13 TOPS          | Up to 13 TOPS          |
|  <b>NOTE:</b> Tera Operations Per Second (TOPS) is an AI performance metric that measures how many trillions of operations per second an AI processor can perform. |                        |                        |                        |                        |

## Chipset

The following table lists the details of the chipset that is supported by your Dell Pro Tower Plus QBT1250.

**Table 4. Chipset**

| Description    | Values                   |
|----------------|--------------------------|
| Chipset        | Intel Q870               |
| Processor      | Intel Core Ultra 5/7/9   |
| DRAM bus width | 64-bit/128-bit           |
| Flash EPROM    | 32 MB RPMC + 32 MB nRPMC |
| PCIe bus       | Up to Gen4               |

# Operating system

Your Dell Pro Tower Plus QBT1250 supports the following operating systems:

- Windows 11 Home
- Windows 11 Pro
- Windows 11 Pro National Education
- Ubuntu Linux 24.04 LTS

# Memory

The following table lists the memory specifications that are supported by your Dell Pro Tower Plus QBT1250.

Table 5. Memory specifications

| Description                     | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memory slots                    | Four UDIMM slots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Memory type                     | DDR5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Memory speed                    | <ul style="list-style-type: none"><li>• Up to 4400 MT/s</li><li>• Up to 4800 MT/s</li><li>• Up to 5600 MT/s</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Maximum memory configuration    | 128 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Minimum memory configuration    | 8 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Memory size per slot            | 8 GB, 16 GB, or 32 GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Memory configurations supported | <ul style="list-style-type: none"><li>• 8 GB: 1 x 8 GB, single-channel DDR5, up to 5600 MT/s</li><li>• 16 GB: 1 x 16 GB, single-channel DDR5, up to 5600 MT/s</li><li>• 16 GB: 2 x 8 GB, dual-channel DDR5, up to 5600 MT/s</li><li>• 32 GB: 1 x 32 GB, single-channel DDR5, up to 5600 MT/s</li><li>• 32 GB: 2 x 16 GB, dual-Channel DDR5, up to 5600 MT/s</li><li>• 32 GB: 4 x 8 GB, dual-Channel DDR5, up to 4800 MT/s</li><li>• 64 GB: 2 x 32 GB, dual-Channel DDR5, up to 5600 MT/s</li><li>• 64 GB: 4 x 16 GB, dual-Channel DDR5, up to 4800 MT/s</li><li>• 128 GB: 4 x 32 GB, dual-Channel DDR5, up to 4400 MT/s</li></ul> |

# External ports and slots

The following table lists the external ports and slots of your Dell Pro Tower Plus QBT1250.

Table 6. External ports and slots

| Description  | Values                                                                                                                                                                                                                                                                          |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network port | One RJ45 ethernet port (1 Gbps)                                                                                                                                                                                                                                                 |
| USB ports    | <ul style="list-style-type: none"><li>• One USB 2.0 (480 Mbps) with PowerShare port</li><li>• One USB 2.0 (480 Mbps) port</li><li>• One USB 3.2 Gen 2x2 (20 Gbps) Type-C port</li><li>• One USB 3.2 Gen 2 (10 Gbps) port</li><li>• Three USB 3.2 Gen 1 (5 Gbps) ports</li></ul> |

**Table 6. External ports and slots (continued)**

| Description         | Values                                                                                                                                             |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <ul style="list-style-type: none"> <li>Two USB 2.0 (480 Mbps) with SmartPower On ports</li> <li>One USB 3.2 Gen 2 (10 Gbps) Type-C port</li> </ul> |
| Audio port          | One global headset jack                                                                                                                            |
| Video port(s)       | Three DisplayPort 1.4a (HBR3) ports                                                                                                                |
| Media-card reader   | One SD-card 4.0 slot (optional)                                                                                                                    |
| Power port          | One power-cable connector                                                                                                                          |
| Peripheral port     | One legacy serial port (optional)                                                                                                                  |
| Security-cable slot | <ul style="list-style-type: none"> <li>One padlock ring</li> <li>One security cable slot (for a Kensington lock)</li> </ul>                        |

## External Port (optional module slot)

The following table lists the external ports that are supported on the optional module slot for Dell Pro Tower Plus QBT1250.

 **NOTE:** The ports that are listed in this table are mutually exclusive. Your Dell Pro Tower Plus QBT1250 can only support one of the listed options.

**Table 7. External ports (optional module)**

| Description  | Values                                                                                                                                                                                                                                   |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network port | <ul style="list-style-type: none"> <li>One RJ45 ethernet port (5 Gbps)</li> <li>One fiber optic port (5 Gbps, peer-to-peer)</li> </ul>                                                                                                   |
| USB ports    | <ul style="list-style-type: none"> <li>Two USB 3.2 Gen 2 (10 Gbps) ports</li> <li>One USB 3.2 Gen 2 (10 Gbps) Type-C with DisplayPort Alt Mode port</li> <li>One Thunderbolt 4 port + One USB 3.2 Gen 2 (10 Gbps) Type-C port</li> </ul> |
| Video ports  | <ul style="list-style-type: none"> <li>One HDMI 2.1 (FRL) port</li> <li>One VGA port</li> <li>One DisplayPort 2.1 (UHBR20) port</li> </ul>                                                                                               |

## Internal slots

The following table lists the internal slots on your Dell Pro Tower Plus QBT1250.

**Table 8. Internal slots**

| Description | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M.2         | <ul style="list-style-type: none"> <li>One M.2 2230 slot for WiFi and Bluetooth combo card</li> <li>One M.2 2230 slot solid-state drive</li> <li>Two M.2 2230/2280 slots for solid-state drive</li> </ul> <p> <b>NOTE:</b> To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at <a href="#">Dell Support Site</a>.</p> |

**Table 8. Internal slots (continued)**

| Description | Values                                                                                                                                                                                                                                |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SATA        | <ul style="list-style-type: none"> <li>One SATA 3.0 slot for 3.5-inch hard drive</li> <li>One SATA 3.0 slot for slimline optical drive</li> </ul>                                                                                     |
| PCIe        | <ul style="list-style-type: none"> <li>One full-height PCIe x16 slot</li> <li>One full-height PCIe x1 slot</li> <li>One full-height PCIe x4 open-end slot</li> <li>One full-height PCIe x4 slot (optional expansion board)</li> </ul> |

## Ethernet

The following table lists the wired ethernet Local Area Network (LAN) specifications of your Dell Pro Tower Plus QBT1250.

**Table 9. Ethernet specifications**

| Description   | Values           |
|---------------|------------------|
| Model         | Intel i219-LM    |
| Transfer rate | 10/100/1000 Mbps |

## Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your Dell Pro Tower Plus QBT1250.

**Table 10. Wireless module specifications**

| Description                                                                                                                                                                                                          | Option one                                                                                                                                                            | Option two                                                                                                                                                                                            | Option three                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model number                                                                                                                                                                                                         | Intel Wi-Fi 6E AX211                                                                                                                                                  | Intel Wi-Fi 7 BE200                                                                                                                                                                                   | MediaTek Wi-Fi 6 MT7920                                                                                                                                              |
| Transfer rate                                                                                                                                                                                                        | Up to 2400 Mbps                                                                                                                                                       | Up to 5760 Mbps                                                                                                                                                                                       | Up to 1200 Mbps                                                                                                                                                      |
| Frequency bands supported                                                                                                                                                                                            | 2.4 GHz/5 GHz/6 GHz                                                                                                                                                   | 2.4 GHz/5 GHz/6 GHz                                                                                                                                                                                   | 2.4 GHz/5 GHz                                                                                                                                                        |
| Wireless standards                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> <li>Wi-Fi 6E (WiFi 802.11ax)</li> </ul> | <ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> <li>Wi-Fi 6 (WiFi 802.11ax)</li> <li>Wi-Fi 7 (WiFi 802.11be)</li> </ul> | <ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> <li>Wi-Fi 6 (WiFi 802.11ax)</li> </ul> |
| Encryption                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>                                                                  | <ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>                                                                                                  | <ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>                                                                 |
| Bluetooth wireless card<br> <b>NOTE:</b> The functionality of the Bluetooth wireless card may vary based on the operating system. | Bluetooth 5.3                                                                                                                                                         | Bluetooth 5.4                                                                                                                                                                                         | Bluetooth 5.4                                                                                                                                                        |

# Audio

The following table lists the audio specifications of your Dell Pro Tower Plus QBT1250.

**Table 11. Audio specifications**

| Description              | Values                                |
|--------------------------|---------------------------------------|
| Audio type               | High Definition Audio                 |
| Audio controller         | Realtek ALC3204                       |
| Internal audio interface | High Definition Audio (HDA) interface |
| External audio interface | One global headset jack               |

# Storage

This section lists the storage options on your Dell Pro Tower Plus QBT1250.

Your Dell Pro Tower Plus QBT1250 supports a combination of the following storage configurations:

- One 3.5-inch hard drive
- Up to three M.2 2230 solid-state drives
- Up to two M.2 2280 solid-state drives

The primary drive of your Dell Pro Tower Plus QBT1250 is the M.2 solid-state drive.

**Table 12. Storage specifications**

| Storage type                                        | Interface type                  | Capacity            |
|-----------------------------------------------------|---------------------------------|---------------------|
| 3.5-inch hard drive                                 | SATA AHCI, up to 6 Gbps         | Up to 4 TB          |
| M.2 2230 QLC solid-state drive                      | PCIe Gen4x4 NVMe, up to 64 GT/s | Up to 512 GB        |
| M.2 2230 TLC solid-state drive                      | PCIe Gen4x4 NVMe, up to 64 GT/s | Up to 1 TB          |
| M.2 2280 self-encrypting Opal 2.0 solid-state drive | PCIe Gen4x4 NVMe, up to 64 GT/s | Up to 2 TB          |
| 9.5 mm 8x slimline DVD-RW drive                     | SATA AHCI, up to 1.5 Gbps       | One slimline DVD-RW |

# Media-card reader

The following table provides the specification of media cards that are supported by your Dell Pro Tower Plus QBT1250.

**Table 13. Media-card reader specifications**

| Description                                                                                                                                                                                                                          | Values                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Media-card slot type                                                                                                                                                                                                                 | One SD-card 4.0 slot                                                                                                                                                  |
| Media-cards supported                                                                                                                                                                                                                | <ul style="list-style-type: none"><li>• Secure Digital (SD)</li><li>• Secure Digital High Capacity (SDHC)</li><li>• Secure Digital Extended Capacity (SDXC)</li></ul> |
|  <b>NOTE:</b> The maximum capacity of the media-card reader varies depending on the standard of the media card that is inserted in your computer. |                                                                                                                                                                       |

## Power ratings

The following table lists the power rating specifications of Dell Pro Tower Plus QBT1250.

**Table 14. Power ratings**

| Description                 | Option one                                                                                                                                                                                      | Option two                                                                                                                                                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                        | 260 W, Bronze                                                                                                                                                                                   | 360 W, Platinum                                                                                                                                                                                                                            |
| Input voltage               | 90 VAC–264 VAC                                                                                                                                                                                  | 90 VAC–264 VAC                                                                                                                                                                                                                             |
| Input frequency             | 47 Hz–63 Hz                                                                                                                                                                                     | 47 Hz–63 Hz                                                                                                                                                                                                                                |
| Input current (maximum)     | 4.20 A                                                                                                                                                                                          | 5 A                                                                                                                                                                                                                                        |
| Output current (continuous) | Operating: <ul style="list-style-type: none"><li>• 12 VA: 18 A</li><li>• 12 VB: 16 A</li></ul> Storage: <ul style="list-style-type: none"><li>• 12 VA: 1.50 A</li><li>• 12 VB: 3.30 A</li></ul> | Operating: <ul style="list-style-type: none"><li>• 12 VA: 18 A</li><li>• 12 VB: 18 A</li><li>• 12 VC: 13 A</li></ul> Storage: <ul style="list-style-type: none"><li>• 12 VA: 1.50 A</li><li>• 12 VB: 3.30 A</li><li>• 12 VC: 0 A</li></ul> |
| Rated output voltage        | <ul style="list-style-type: none"><li>• 12 VA</li><li>• 12 VB</li></ul>                                                                                                                         | <ul style="list-style-type: none"><li>• 12 VA</li><li>• 12 VB</li><li>• 12 VC</li></ul>                                                                                                                                                    |
| Temperature range:          |                                                                                                                                                                                                 |                                                                                                                                                                                                                                            |
| Operating                   | 5°C to 45°C (41°F to 113°F)                                                                                                                                                                     | 5°C to 45°C (41°F to 113°F)                                                                                                                                                                                                                |
| Storage                     | -40°C to 70°C (-40°F to 158°F)                                                                                                                                                                  | -40°C to 70°C (-40°F to 158°F)                                                                                                                                                                                                             |

## Power supply connector

The following table lists the Power supply connector specifications of your Dell Pro Tower Plus QBT1250.

**Table 15. Power supply connector**

| Power supply                                             | Connectors                                                                                                                                                                          |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 260 W internal power supply unit (PSU), 80 Plus Bronze   | <ul style="list-style-type: none"><li>• Two 4-pin connectors for processor</li><li>• One 8-pin connector for system board</li></ul>                                                 |
| 360 W internal power supply unit (PSU), 80 Plus Platinum | <ul style="list-style-type: none"><li>• Two 4-pin connectors for processor</li><li>• One 8-pin connector for system board</li><li>• One 8-pin connector for graphics card</li></ul> |

# GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Dell Pro Tower Plus QBT1250.

Table 16. GPU—Integrated

| Controller     | Memory size          | Processor              |
|----------------|----------------------|------------------------|
| Intel Graphics | Shared system memory | Intel Core Ultra 5/7/9 |

## Video port and resolution matrix

The following table lists the Video port and resolution matrix of your Dell Pro Tower Plus QBT1250.

**NOTE:** DisplayPort Multi-Stream Technology is a feature that allows you to connect up to four displays to a single DisplayPort port on your device using a daisy chain. This enables you to use multiple displays simultaneously, increasing your productivity and workspace efficiency.

Table 17. Video port and resolution matrix

| Port type                         | DisplayPort 1.4a (HBR3) | DisplayPort 2.1 (UHBR20) | VGA                  | HDMI 2.1 (FRL)       |
|-----------------------------------|-------------------------|--------------------------|----------------------|----------------------|
| Maximum resolution—single display | 5120 x 3200 at 60 Hz    | 7680 x 4320 at 60 Hz     | 1920 x 1200 at 60 Hz | 5120 x 3200 at 60 Hz |
| Maximum resolution—dual MST       | 3840 x 2160 at 60 Hz    | 5120 x 3200 at 60 Hz     | Not applicable       | Not applicable       |
| Maximum resolution—triple MST     | 2560 x 1600 at 60 Hz    | 4096 x 2304 at 60 Hz     | Not applicable       | Not applicable       |
| Maximum resolution—quadruple MST  | 2560 x 1440 at 60 Hz    | 4096 x 2304 at 60 Hz     | Not applicable       | Not applicable       |

# GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Dell Pro Tower Plus QBT1250.

Table 18. GPU—Discrete

| Controller              | Memory size | Memory type |
|-------------------------|-------------|-------------|
| NVIDIA GeForce RTX 4060 | 8 GB        | GDDR6       |
| AMD Radeon RX 6300      | 2 GB        | GDDR6       |
| AMD Radeon RX 7400      | 8 GB        | GDDR6       |
| NVIDIA RTX A400         | 4 GB        | GDDR6       |

# Hardware security

The following table lists the hardware security of your Dell Pro Tower Plus QBT1250.

**Table 19. Hardware security**

| Hardware security                                                                                                |
|------------------------------------------------------------------------------------------------------------------|
| Chassis intrusion switch                                                                                         |
| Chassis lock slot support                                                                                        |
| China fTPM                                                                                                       |
| Intel Authenticate                                                                                               |
| Intel Secure Boot                                                                                                |
| Security-cable slot (Kensington lock)                                                                            |
| Local hard drive data wipe through BIOS (Secure Erase)                                                           |
| Lockable cable covers                                                                                            |
| Microsoft 10 Device Guard and Credential Guard (Enterprise SKU)                                                  |
| Microsoft Windows BitLocker                                                                                      |
| Padlock ring                                                                                                     |
| SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls |
| SafelD including Trusted Platform Module (TPM) 2.0                                                               |
| Self-encrypting storage drives (Opal, FIPS)                                                                      |
| Smart card keyboard (FIPS)                                                                                       |
| Supply chain tamper alerts                                                                                       |
| Trusted Platform Module TPM 2.0                                                                                  |

# Environmental

The following table lists the environmental specifications of your Dell Pro Tower Plus QBT1250.

**Table 20. Environmental**

| Feature                                | Values |
|----------------------------------------|--------|
| Recyclable packaging                   | Yes    |
| BFR/PVC—free chassis                   | Yes    |
| Vertical orientation packaging support | Yes    |
| Multi-Pack packaging                   | No     |
| Energy-Efficient Power Supply          | Yes    |
| ENV0424 compliant                      | Yes    |

**NOTE:** Wood-based fiber packaging contains a minimum of 35% recycled content by total weight of wood-based fiber. Packaging that contains without wood-based fiber can be claimed as Not Applicable. The anticipated required criteria for EPEAT 2018.

# Regulatory compliance

The following table lists the regulatory compliance of your Dell Pro Tower Plus QBT1250.

**Table 21. Regulatory compliance**

| Regulatory compliance                                            |
|------------------------------------------------------------------|
| <a href="#">Product Safety, EMC and Environmental Datasheets</a> |
| <a href="#">Dell Regulatory Compliance Home page</a>             |
| <a href="#">Responsible Business Alliance policy</a>             |

## Operating and storage environment

This table lists the operating and storage specifications of your Dell Pro Tower Plus QBT1250.

**Airborne contaminant level:** G1 as defined by ISA-S71.04-1985

**Table 22. Computer environment**

| Description                                                                                                                                                                                                                                                                          | Operating                                                                                                                                                     | Storage                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Temperature range                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"><li>Dell Pro Tower Plus: 10°C to 35°C (50°F to 95°F)</li><li>Dell Pro Tower Plus XE5: 5°C to 45°C (41°F to 113°F)</li></ul> | -40°C to 65°C (-40°F to 149°F)             |
| Relative humidity (maximum)                                                                                                                                                                                                                                                          | 20% to 80% (non-condensing)                                                                                                                                   | 5% to 95% (non-condensing)                 |
| Vibration (maximum)*                                                                                                                                                                                                                                                                 | 0.26 GRMS                                                                                                                                                     | 1.37 GRMS                                  |
| Shock (maximum)                                                                                                                                                                                                                                                                      | 40 G†                                                                                                                                                         | 105 G†                                     |
| Altitude range                                                                                                                                                                                                                                                                       | -15.2 m to 3048 m (-49.87 ft to 10000 ft)                                                                                                                     | -15.2 m to 10668 m (-49.87 ft to 35000 ft) |
|  <b>CAUTION:</b> Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components. |                                                                                                                                                               |                                            |

\* Measured using a random vibration spectrum that simulates the user environment.

† Measured using a 2 ms half-sine pulse.