

Dell Wyse 5070 Thin Client

User Guide



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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Welcome to Dell Wyse 5070 thin client

Wyse 5070 thin client is a high-performance thin client with quad core processors, designed for secure, and easy-to-manage virtual desktop environments. The thin client supports ThinOS, ThinLinux, and Windows 10 IoT Enterprise operating systems.

Dell Wyse 5070 thin client is a 5000 series thin client which offers the following:

- Intel Gemini Lake Pentium Quad Core processor.
- Realtek ALC3253 and Intel audio controllers.
- Intel UHD Graphics 605—Pentium and Intel UHD Graphics 600—Celeron
- Wi-Fi 802.11 ac, Wi-Fi 802.11a/b/g/n, Bluetooth 5.0
- Common access card reader (optional).

Chassis overview

This section explains the front and rear views of Dell Wyse 5070 thin client.

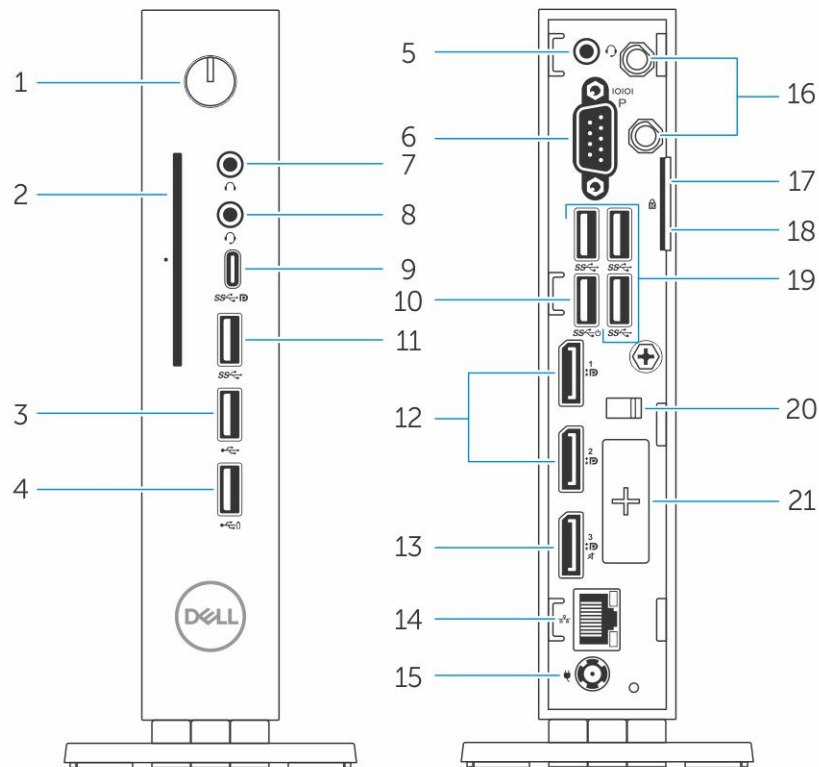


Figure 1. Front and rear view

1. Power button/power light

Press to turn on the thin client if it is turned off, in sleep state.

2. Common Access Card reader

Reads the CAC or smart card for multi factor authentication.

3. USB 2.0 port

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

4. USB 2.0 port with PowerShare

Connect peripherals such as external storage devices and printers, and charges the USB devices when thin client is in off state. . Provides data transfer speeds up to 480 Mbps.

5. Headset port

Connect headphones or speakers. This is valid for pentium processor based model.

6. Serial port

Connect serial device. Internal jumpers to enable supply of 5V/1A total to selected pin(s).

7. Line out port

Denotes the audio output to the active speaker. Connect peripherals such as external storage devices, display, and printers. Provides data transfer speeds up to 10 Gbps.

8. Headset port

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

9. **USB Type-C Port**

Enables you to connect peripherals such as external storage devices, display, and printers. Provides data transfer speeds up to 5 Gbps. It provides up to 5 V/3 A power output that enables faster charging.

10. **USB 3.0 with Smart Power-on**

Connect keyboard or monitor to wake up your thin client from off state.

11. **USB 3.0 port**

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

12. **DisplayPort**

Connect an external display or a projector.

13. **DisplayPort without audio**

Connect an external display or a projector. Video output only. No audio output from this port.

14. **Network port**

Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or internet access. Two LEDs are for activity and connection status and speed.

15. **Power connector port**

Connect a power cable to provide power to your thin client.

NOTE:

DP1 is natural output from SOC directly while additional circuitry is required in the path of DP2/DP3 in order to support DP2/Type C mux and DP3/VGA mux. The additional circuitry consumes more power once the DP2 or DP3 is being used. To maintain ENERGY STAR designation you should use DP1.

16. **Wireless antenna**

Connect antenna to extend the wireless connectivity of your thin client.

17. **Pad lock**

Apply pad lock to prevent unauthorized access to the hardware components of your thin client.

18. **Kensington lock**

Connect a security cable to prevent unauthorized movement of your thin client.

19. **USB 3.0 port (3)**

Connects peripherals such as storage devices and printers. Provides data transfer speeds up to 5 Gbps.

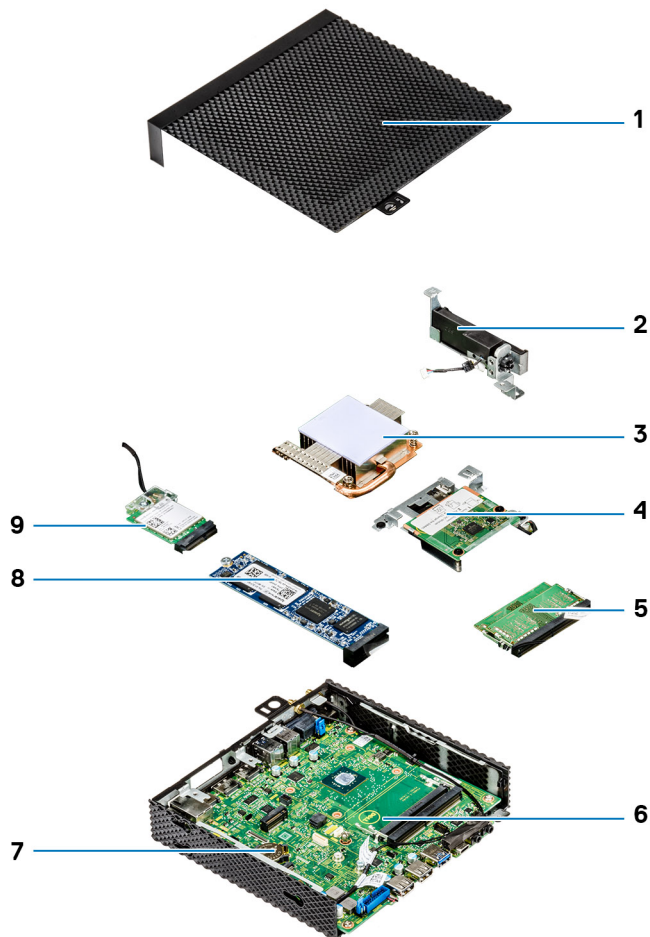
20. **Power cable hook**

Secures the power adapter cable of your thin client.

21. **Expansion slot—Serial/RJ45/SFP/VGA**

Connect RJ45/SFP/VGA/Serial to your thin client.

Major components of your thin client



1. Chassis cover
2. Speaker and power button
3. Heat sink
4. CAC reader
5. Memory
6. System board
7. Coin-cell battery
8. Solid-state drive
9. Wireless card

Supported system peripherals for Wyse 5070 thin client

This section contains details on the supported system peripherals that are shipped as part of Wyse 5070 thin client.

Topics:

- [Supported displays](#)
- [Supported mounts](#)
- [Supported system peripherals](#)

Supported displays

The following Dell displays are supported by Dell Wyse 5070 thin client:

- MR2416
- U2518D
- U2718Q
- U2419H/HC
- U2415
- U2719D/DC
- P2415Q
- P2417H
- P2317H
- P2217H
- P2016
- P2419H/HC
- P2719H/HC
- P4317Q
- E2417H
- E2318H
- E2218HN
- E2016H
- E1916H
- P3418HW
- P2219HC/P2219H
- P2319H

For more information about these displays, see [Dell Support](#).

Supported mounts

This section contains details on the supported mounts for Wyse 5070 thin client.

- P mount
- E mount
- U mount
- Dual VESA mount
- VESA Wall mount

 **NOTE: Vertical stand will be shipped as part of Wyse 5070 thin client.**

For more information on mounts, see [Dell Support](#).

Supported system peripherals

This section contains details on the supported system peripherals for Wyse 5070 thin client.

- Dell Pro stereo headset
- Jabra Pro 935 wireless headset (mono)
- Microsoft LX-6000 headset
- Dell USB wired keyboard with optical mouse
- Dell USB wired keyboard with smart card reader
- Cherry smart card keyboard
- Dell wireless Keyboard and mouse

For more information on system accessories, see [Dell Support](#).

Setting up the thin client

This section explains how to setup the Wyse 5070 thin client on premise.

The Wyse 5070 thin client can be setup with any one of the operating systems at your work place:

- ThinOS
- Windows 10 IoT Enterprise
- ThinLinux

To set up the Wyse 5070 thin client, do the following:

1. Install the stand.

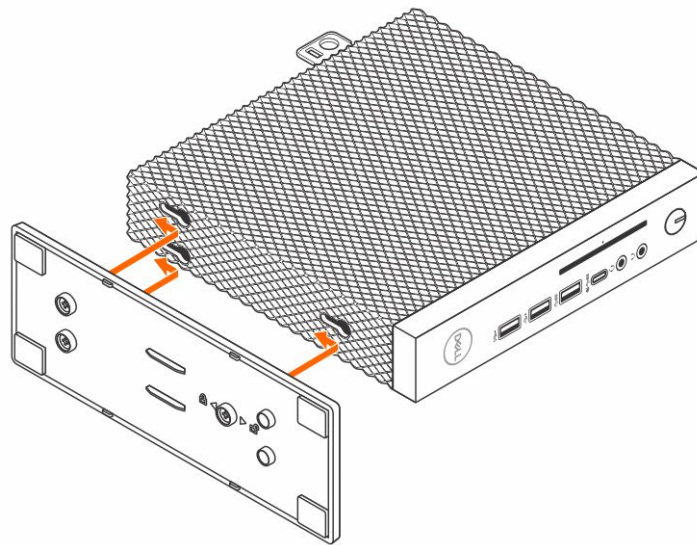


Figure 2. Installing the stand

2. Connect the keyboard and mouse.

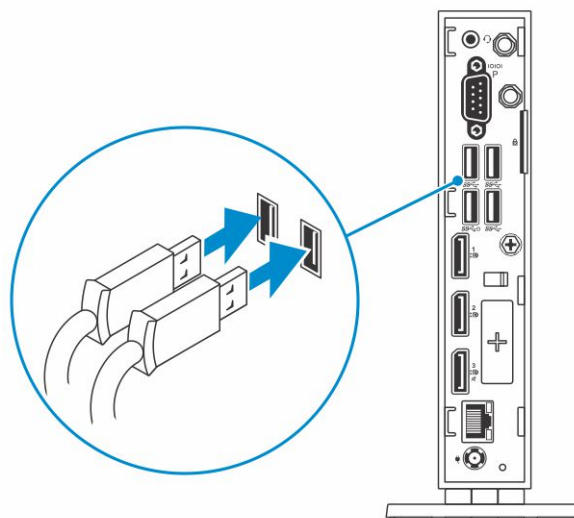


Figure 3. Installing keyboard and mouse

3. Connect the network cable.

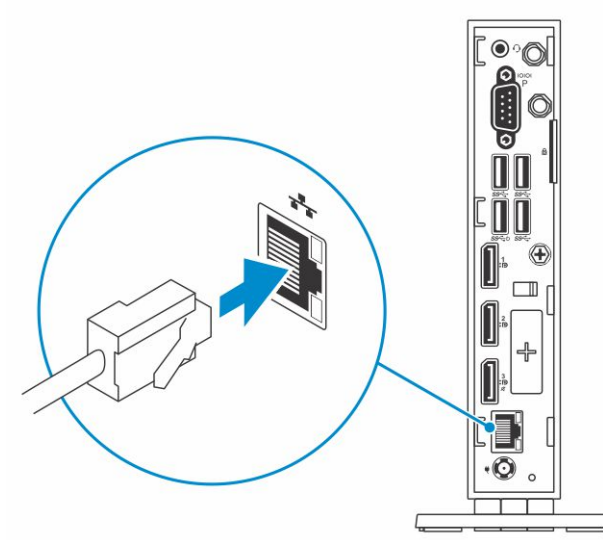


Figure 4. Installing network cable

4. Connect the display and press the power button.

i **NOTE: The Wyse 5070 thin client must be mounted only on a vertical orientation.**

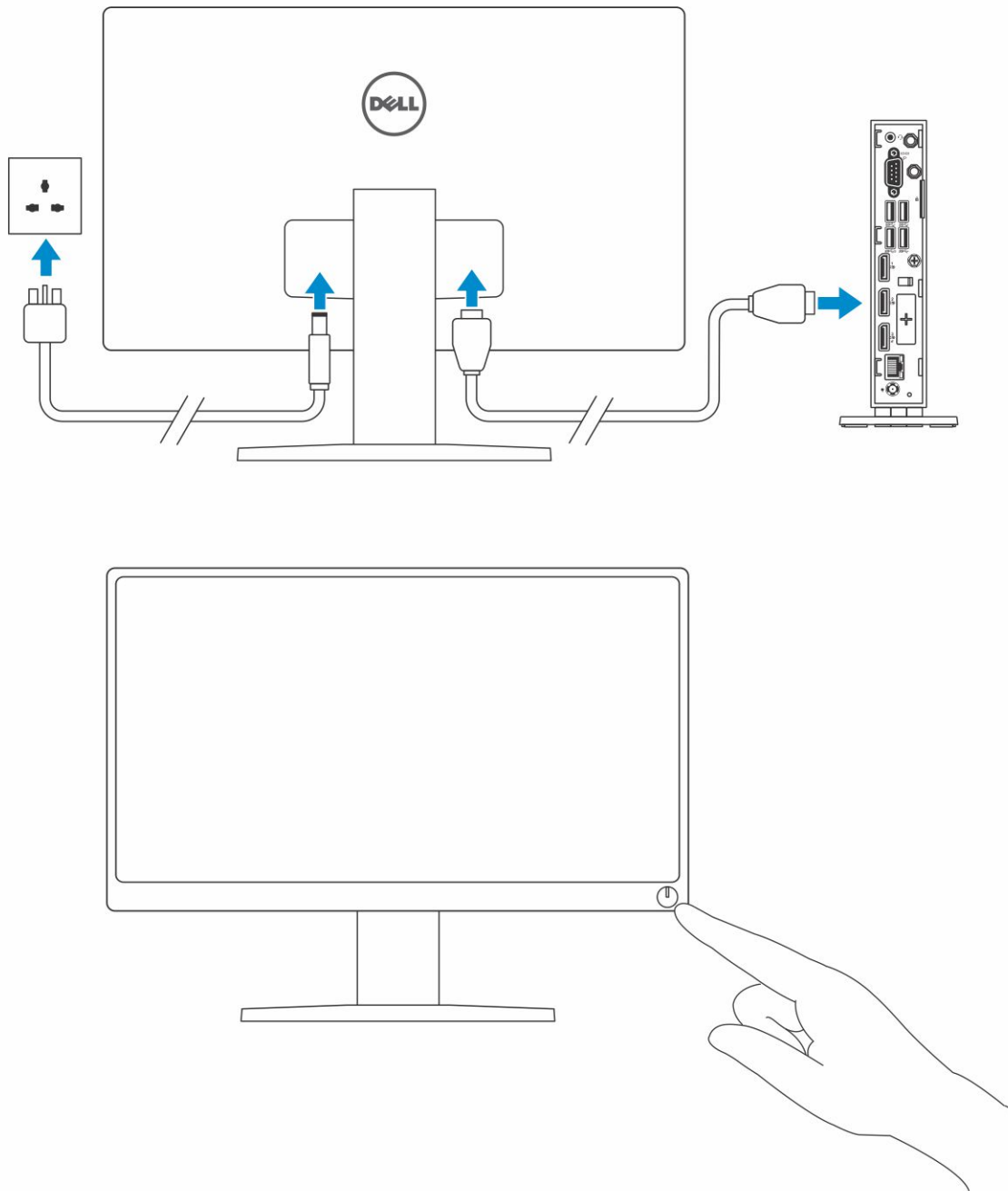


Figure 5. Connecting the display

5. Connect the power cable and route the power cable through the cable clip, and press the power button.

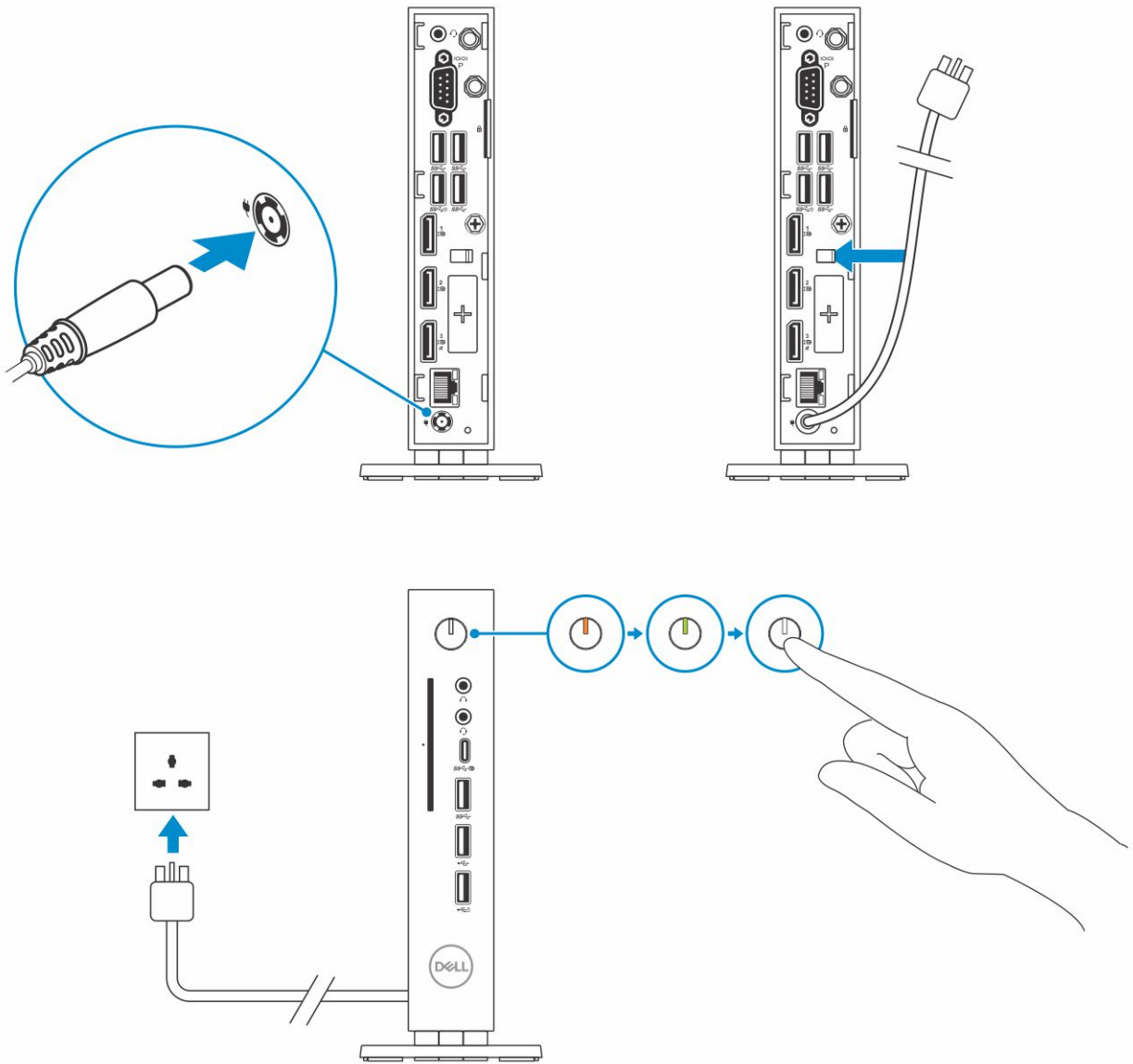


Figure 6. Connect the power cable

Before working on your thin client

You must perform the below steps before you work on the thin client.

 **NOTE: For more safety best practices, see the Regulatory Compliance home page at www.Dell.com/regulatory_compliance.**

1. Save and close all open files and exit all open applications.
2. Click **Start > Power > Shut down** to shut down your thin client.

 **NOTE: For shut down instructions, see documentation of the respective operating system.**

3. Disconnect your thin client and all the attached devices from their electrical outlets.
4. Disconnect all network cables from your thin client.
5. Disconnect all attached devices and peripherals, such as keyboard, mouse, and monitor, from your thin client.

After working on your thin client

 **NOTE:** You must not leave the stray or loose the screws inside your thin client. This may damage your thin client.

1. Reinstall all the screws and ensure that no stray screws remain inside your thin client.
2. Connect any external devices, peripherals, or cables you removed before working on your thin client.
3. Connect your thin client and all attached devices to their electrical outlets.
4. Turn on your thin client.

Removing and installing components

This section provides detailed information about how to remove or install the chassis and memory module of your thin client.

Topics:

- [Chassis cover](#)
- [CAC reader](#)
- [Memory module](#)

Chassis cover

Chassis cover provides security for the entire thin client and also helps in maintaining proper air flow inside the thin client.

Remove the chassis cover

Procedure

1. Follow the procedure in [Before working on your thin client](#).
2. Loosen the thumb screw that secures the chassis cover to the thin client.

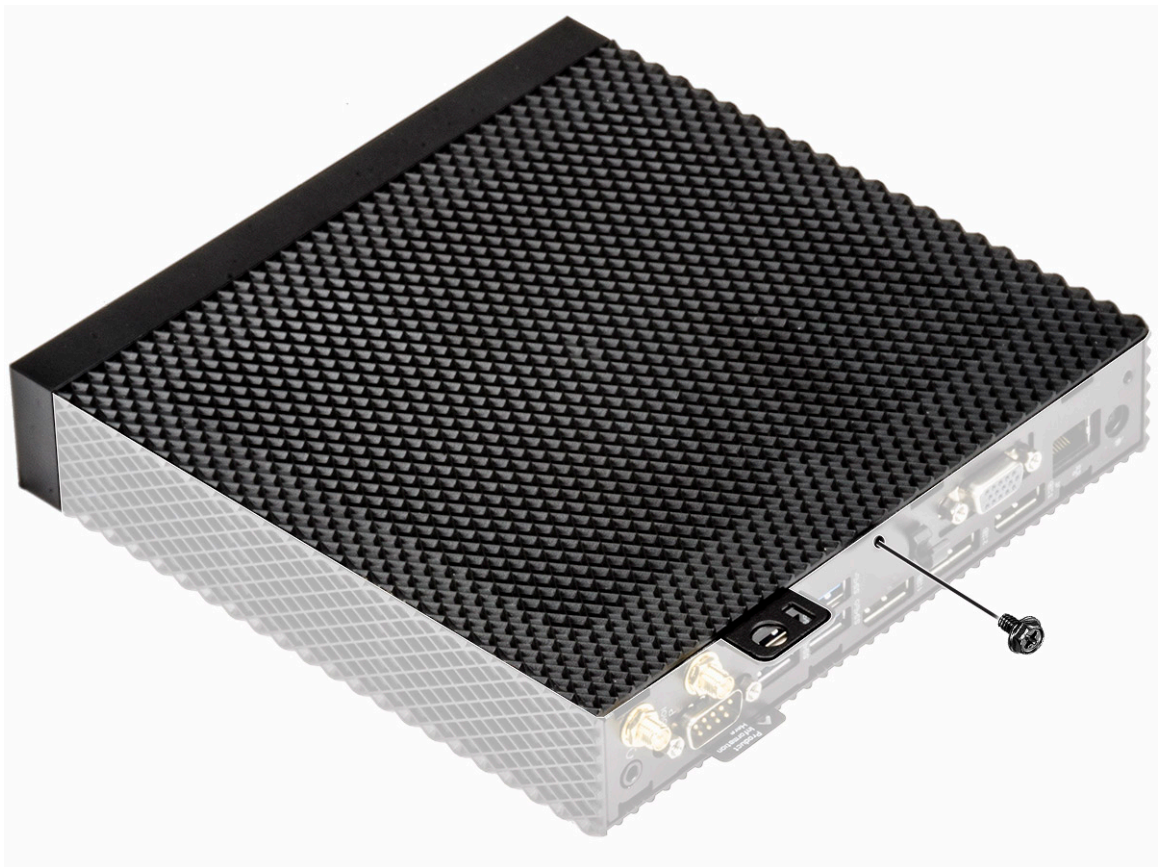


Figure 7. Loosen the thumb screw

3. Slide the cover towards the front of the system to disengage the tabs from the guide slots on the thin client.

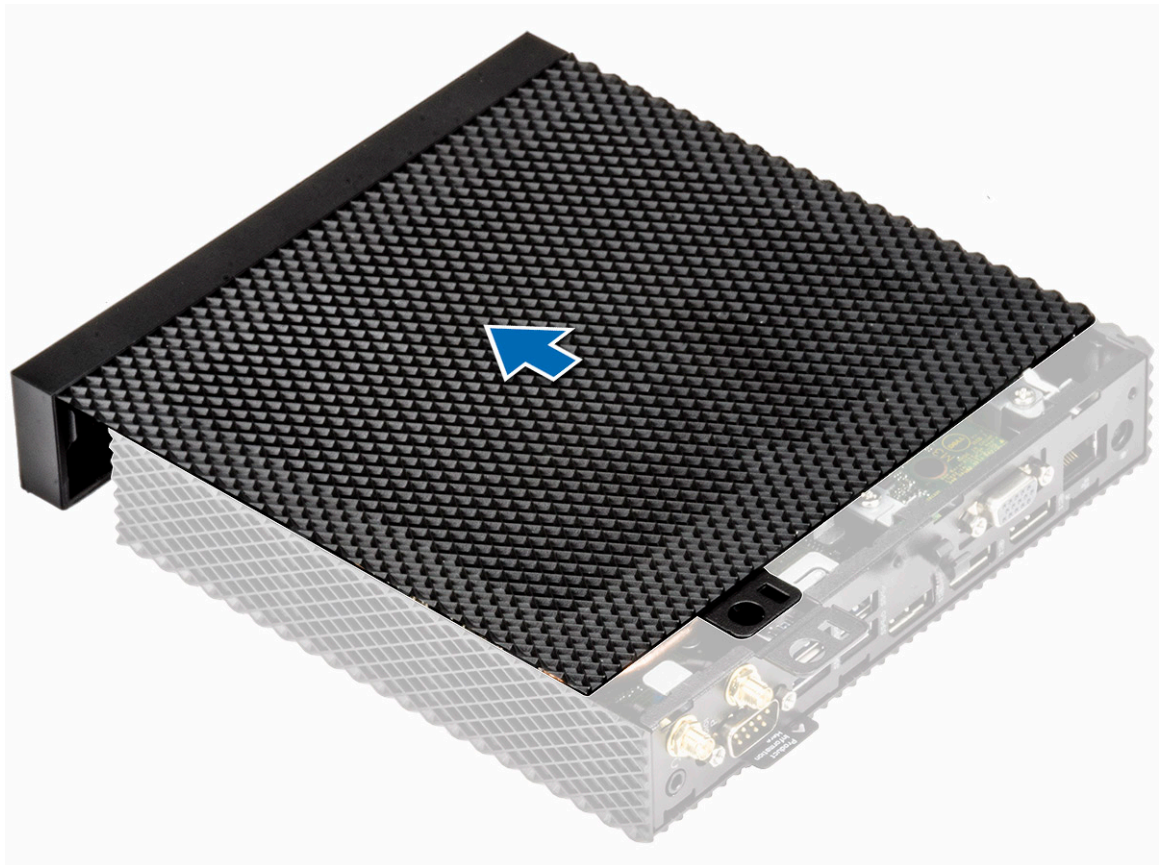


Figure 8. Slide the cover

4. Lift the cover away from the thin client.

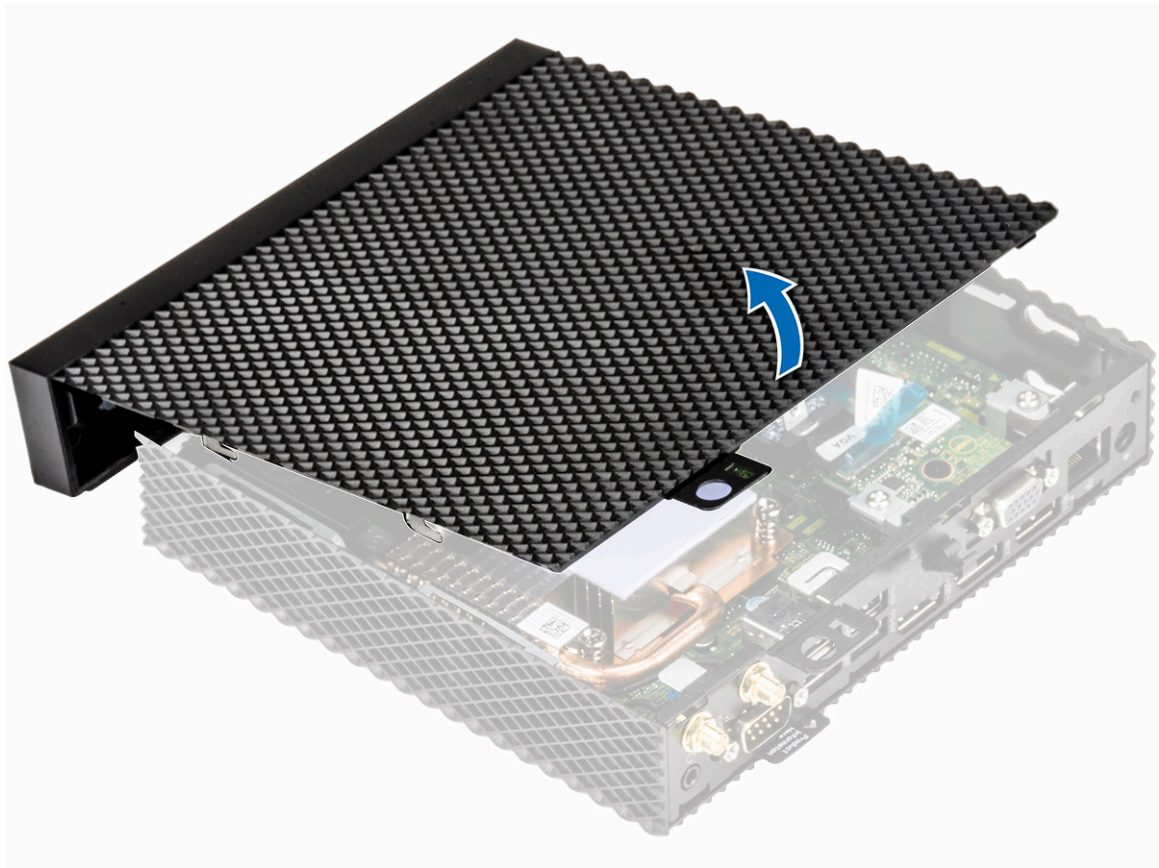


Figure 9. Lift the cover

Install the chassis cover

Procedure

1. Align the tabs on the chassis cover with the guide slots on the thin client.

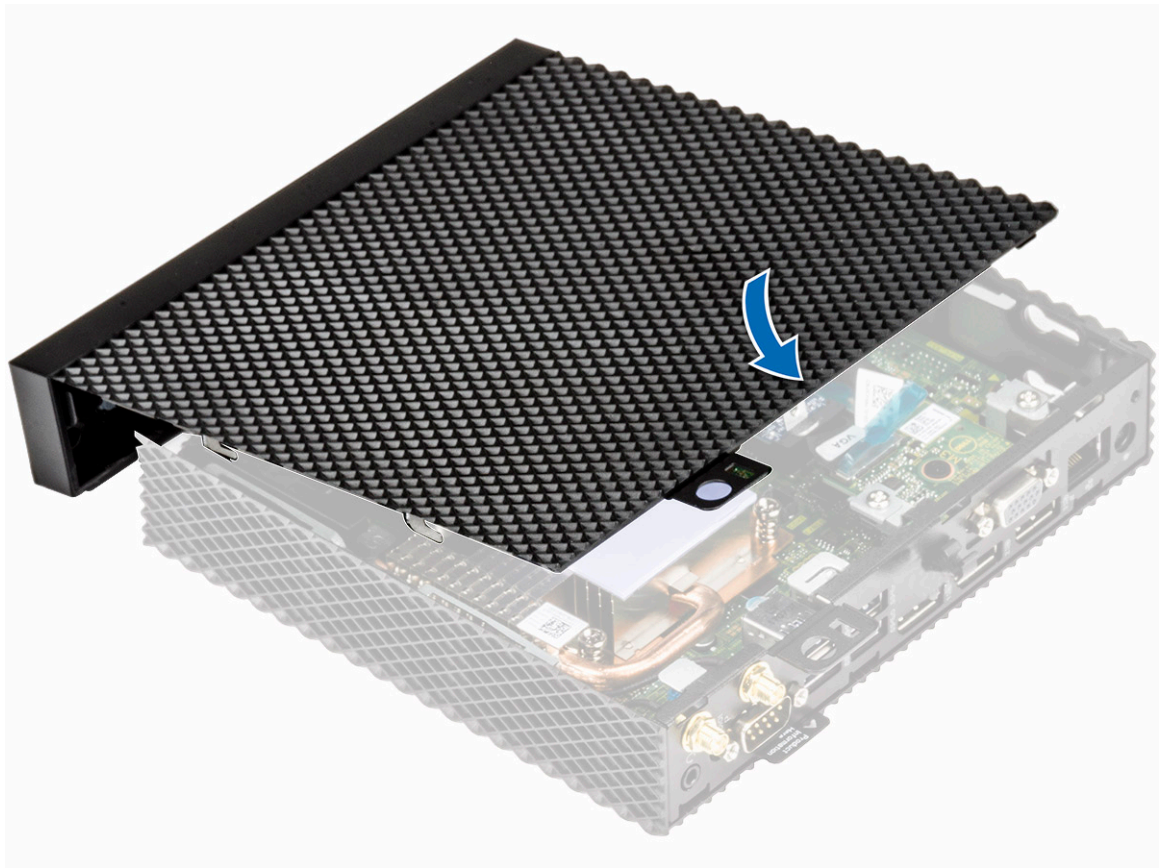


Figure 10. Align the tabs

2. Slide the cover until the tabs snap into place.

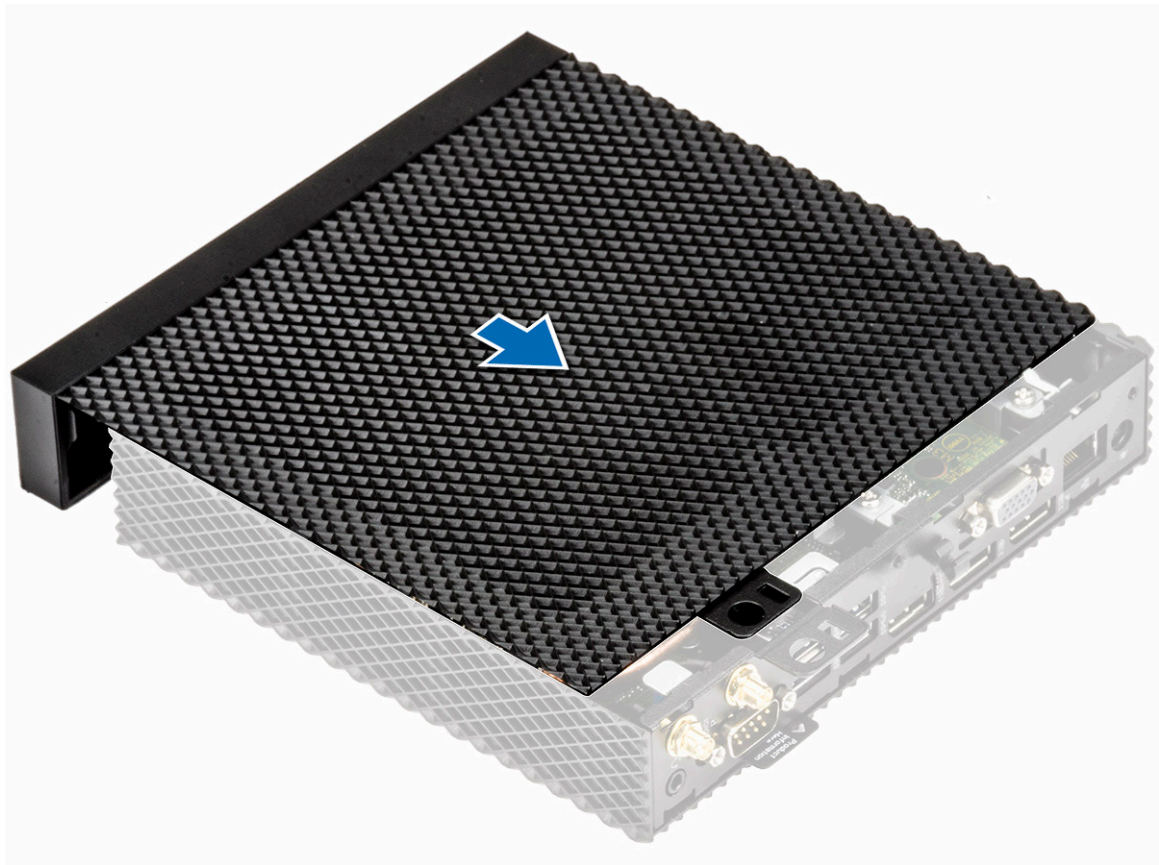


Figure 11. Slide the cover

3. Tighten the thumb screw to secure the chassis cover to the thin client.

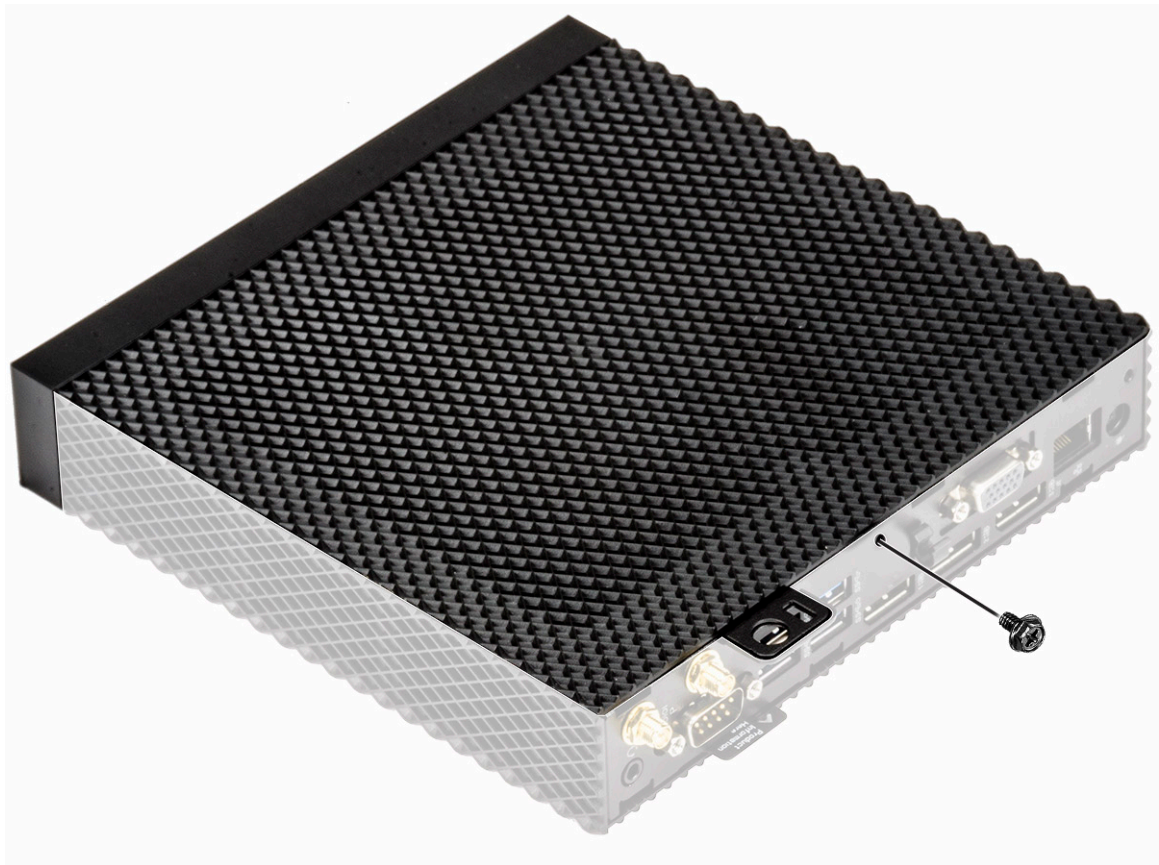


Figure 12. Tighten the thumb screw

4. Follow the procedure in [After working on your thin client](#).

CAC reader

CAC reader enables to read the smart card for multi factor authentication.

Remove the CAC reader

Prerequisite

Remove the [Chassis cover](#).

Procedure

1. Follow the procedure in [Before working on your thin client](#).
2. Disconnect the cable that secures the CAC reader to the system board.

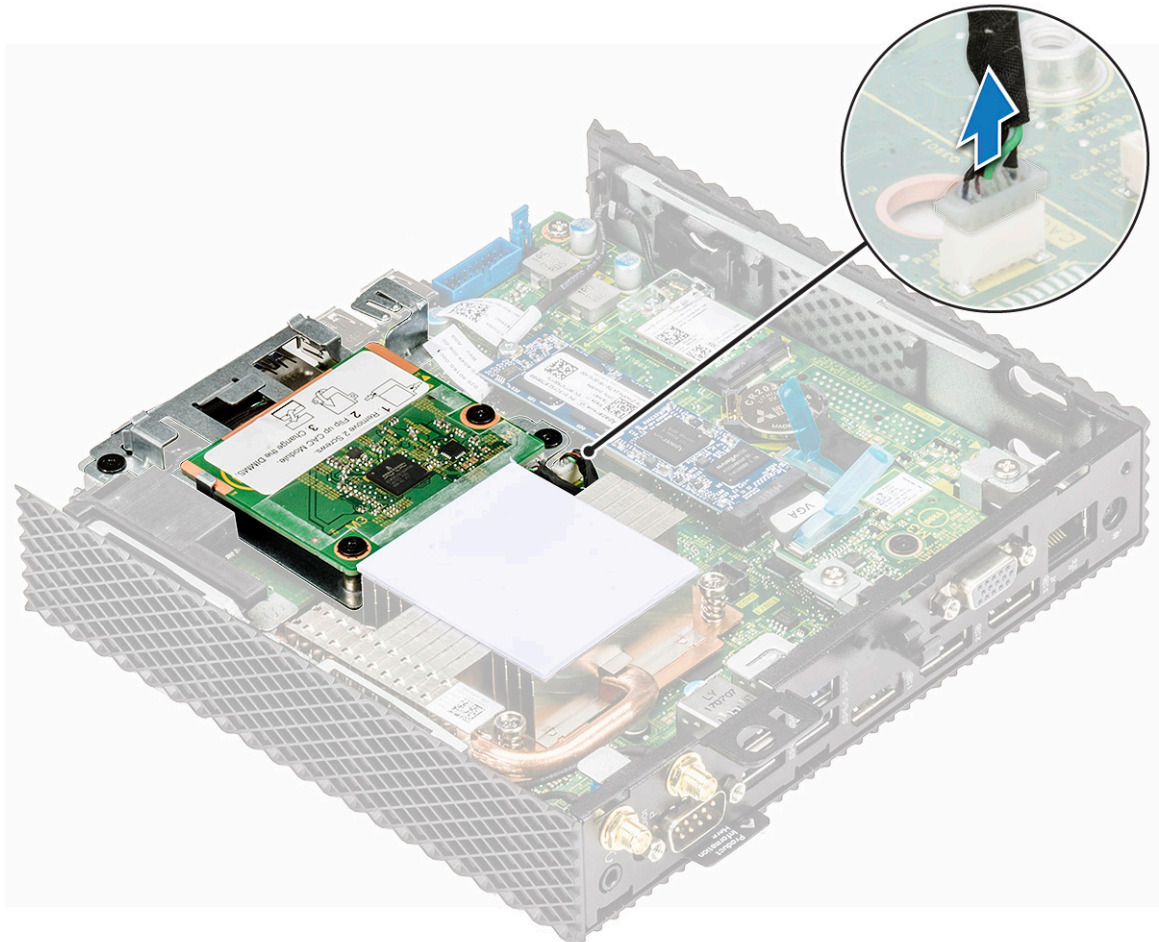


Figure 13. Disconnect the cable

3. Remove screws 1, and screw 2 that secure the CAC reader bracket to the system board and the chassis [1].
4. Lift the CAC reader bracket away from the system board [2].

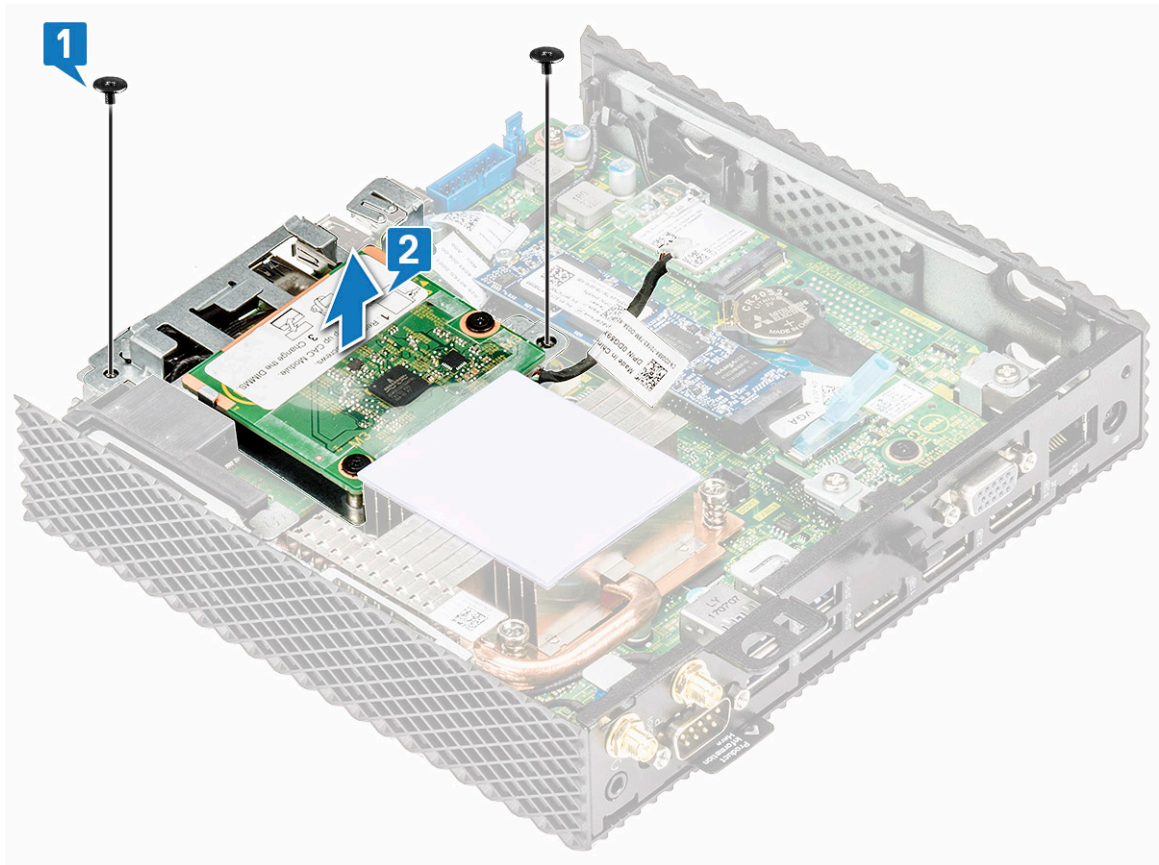


Figure 14. Remove the CAC reader bracket

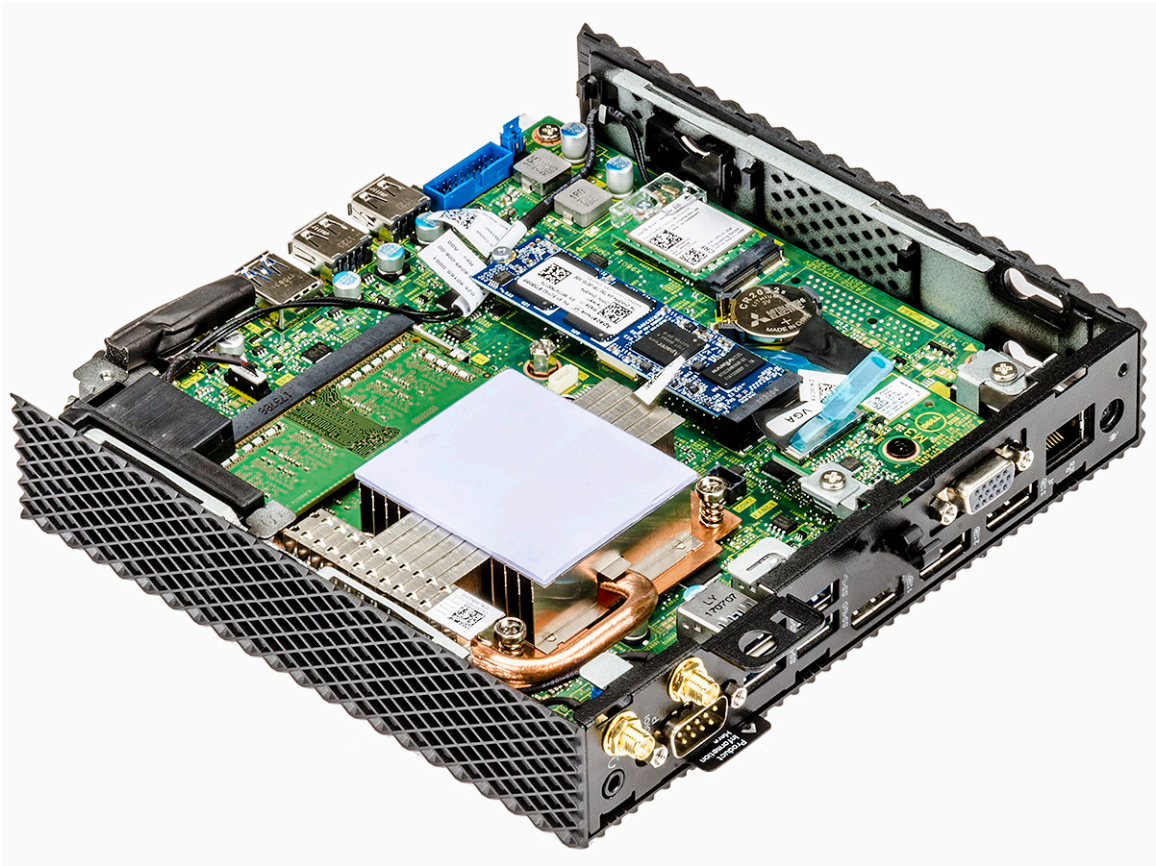


Figure 15. CAC reader bracket is removed

Install the CAC reader

Procedure

1. Align the screw holes on the CAC reader bracket with the screw holes on the system board and chassis.
2. Replace the two screws that secure the CAC reader bracket to the system board and main chassis.

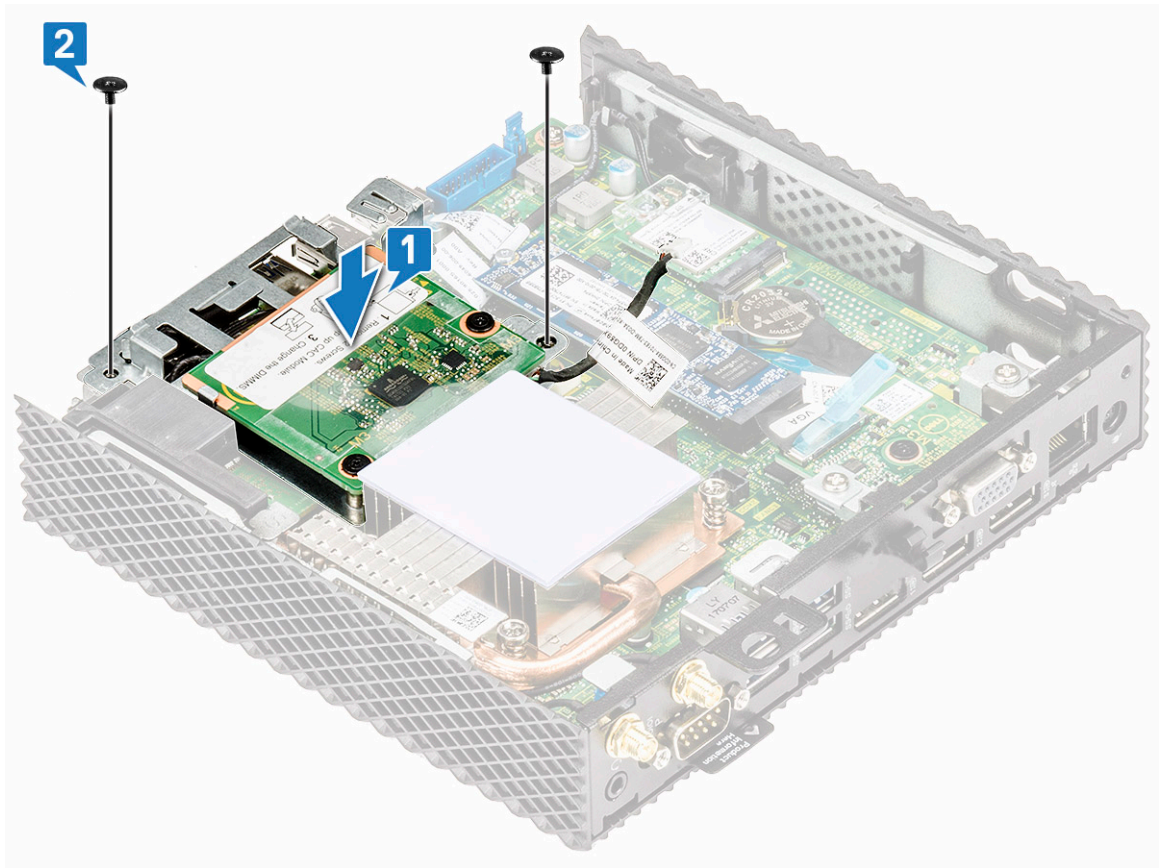


Figure 16. Align the screw holes and replace the screw

3. Connect the CAC reader cable to the system board.

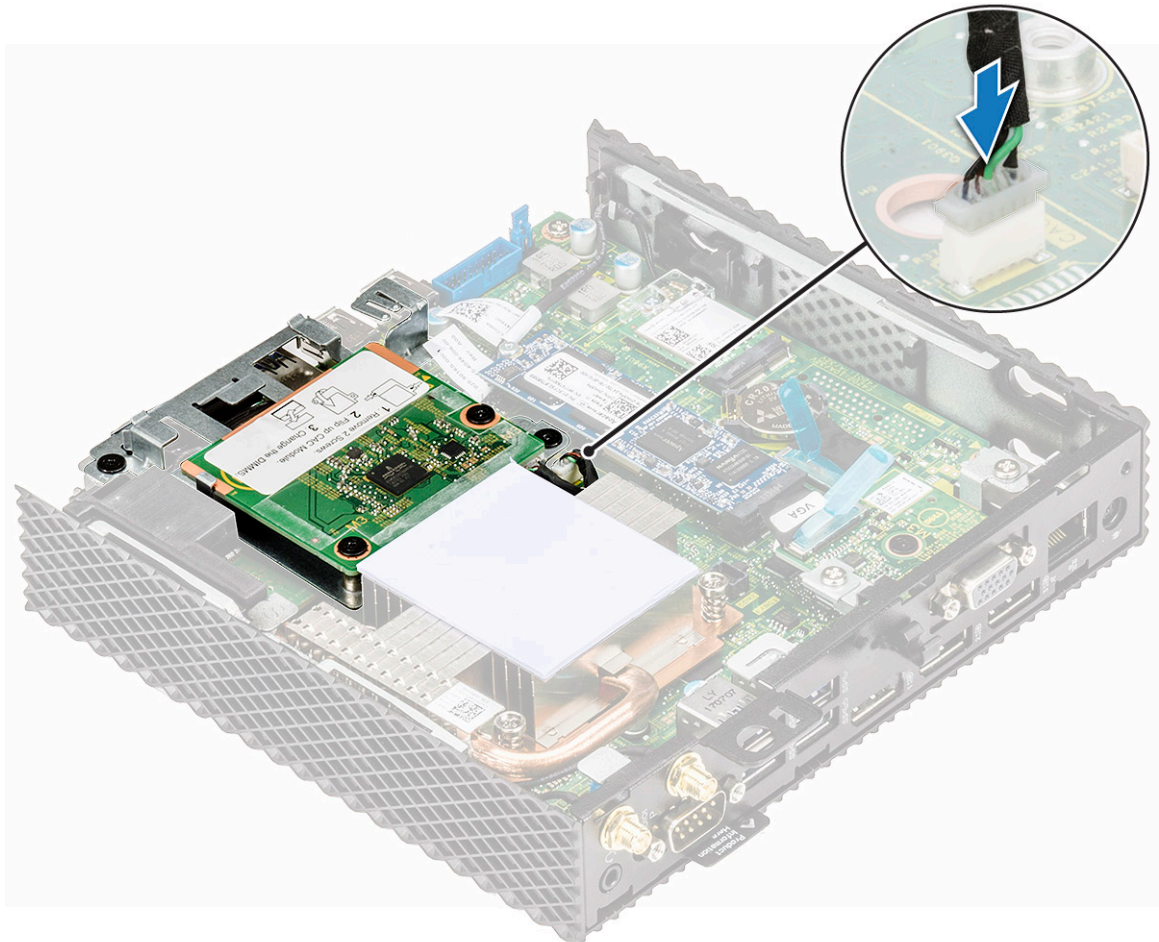


Figure 17. Connect CAC cable

4. Follow the procedure in [After working on your thin client](#).

Postrequisite

Replace the [Chassis cover](#).

Memory module

A memory module is a circuit board that contains DRAM-integrated circuits that are installed into the memory slot on a system board.

Remove the memory module

Prerequisites

1. Remove the [chassis cover](#).
2. Remove the [CAC reader](#).

Procedure

1. Follow the procedure in [Before working on your thin client](#).
2. Using your fingertips, spread apart the securing clips on each end of the memory-module slot until the memory module pops up [1] and [2].
3. Slide and remove the memory module from the memory-module slot.

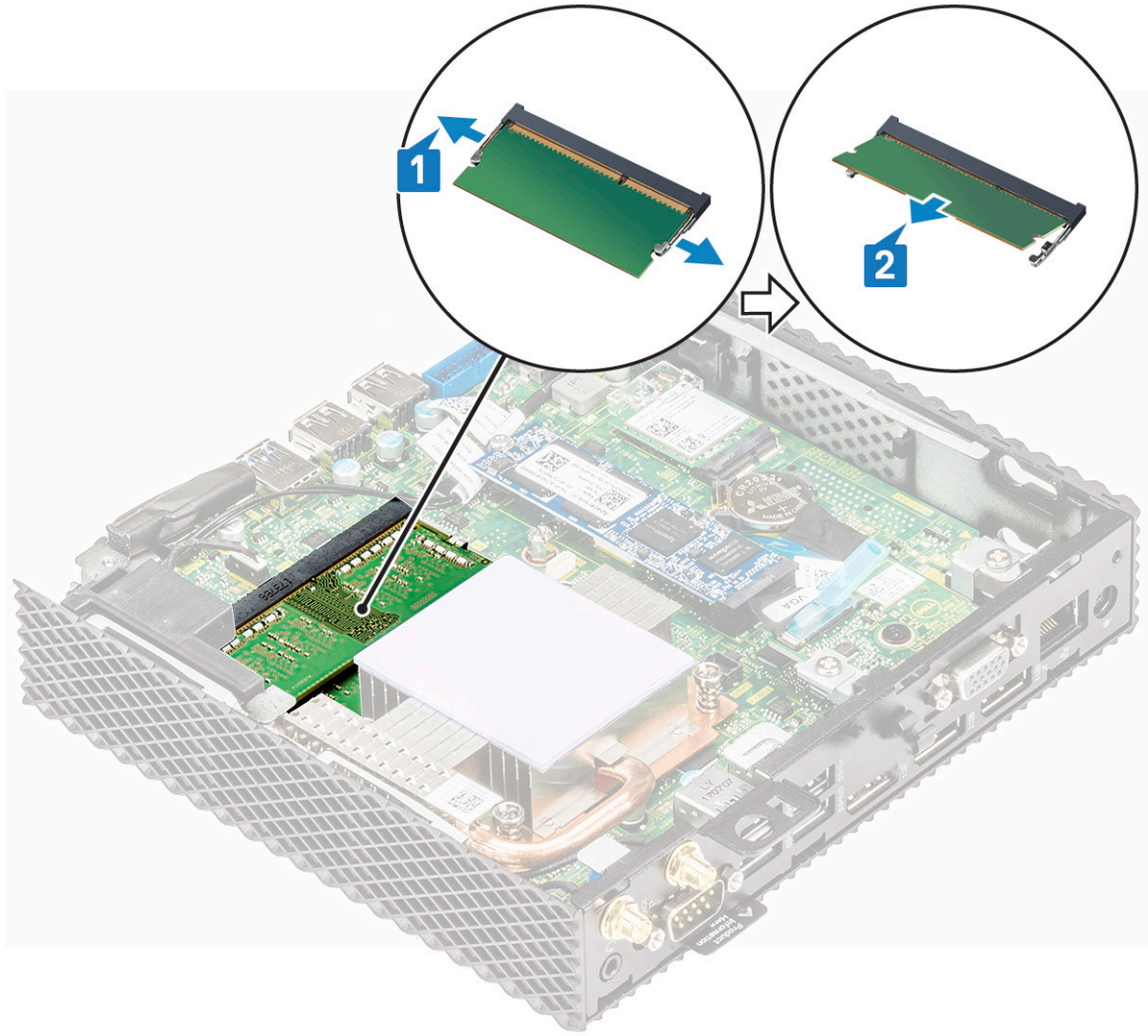


Figure 18. Remove the memory cards

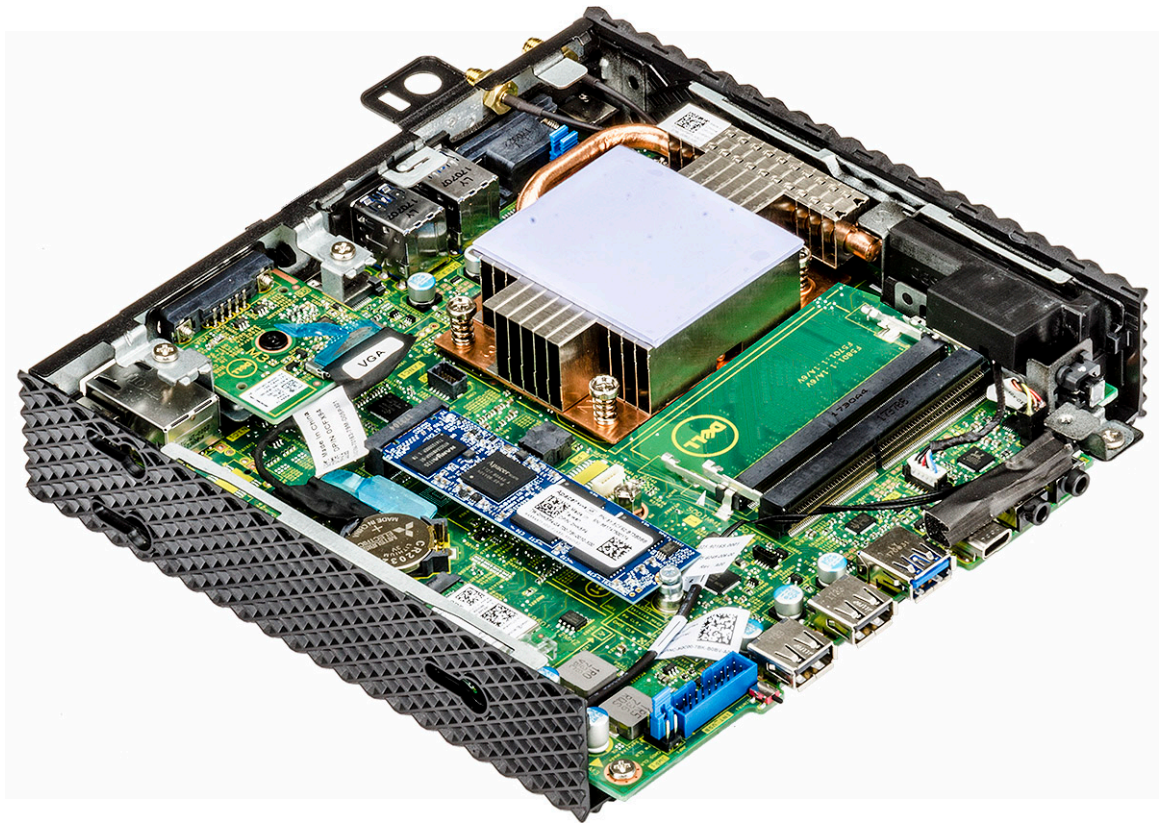


Figure 19. Memory cards are removed

Install the memory module

Procedure

1. Align the notch on the memory module with the tab on the memory-module slot.
2. Slide the memory module firmly into the slot at an angle, and gently press the memory module down until it clicks into place.

i **NOTE:** If you do not hear the click, remove the memory module and reinstall it.

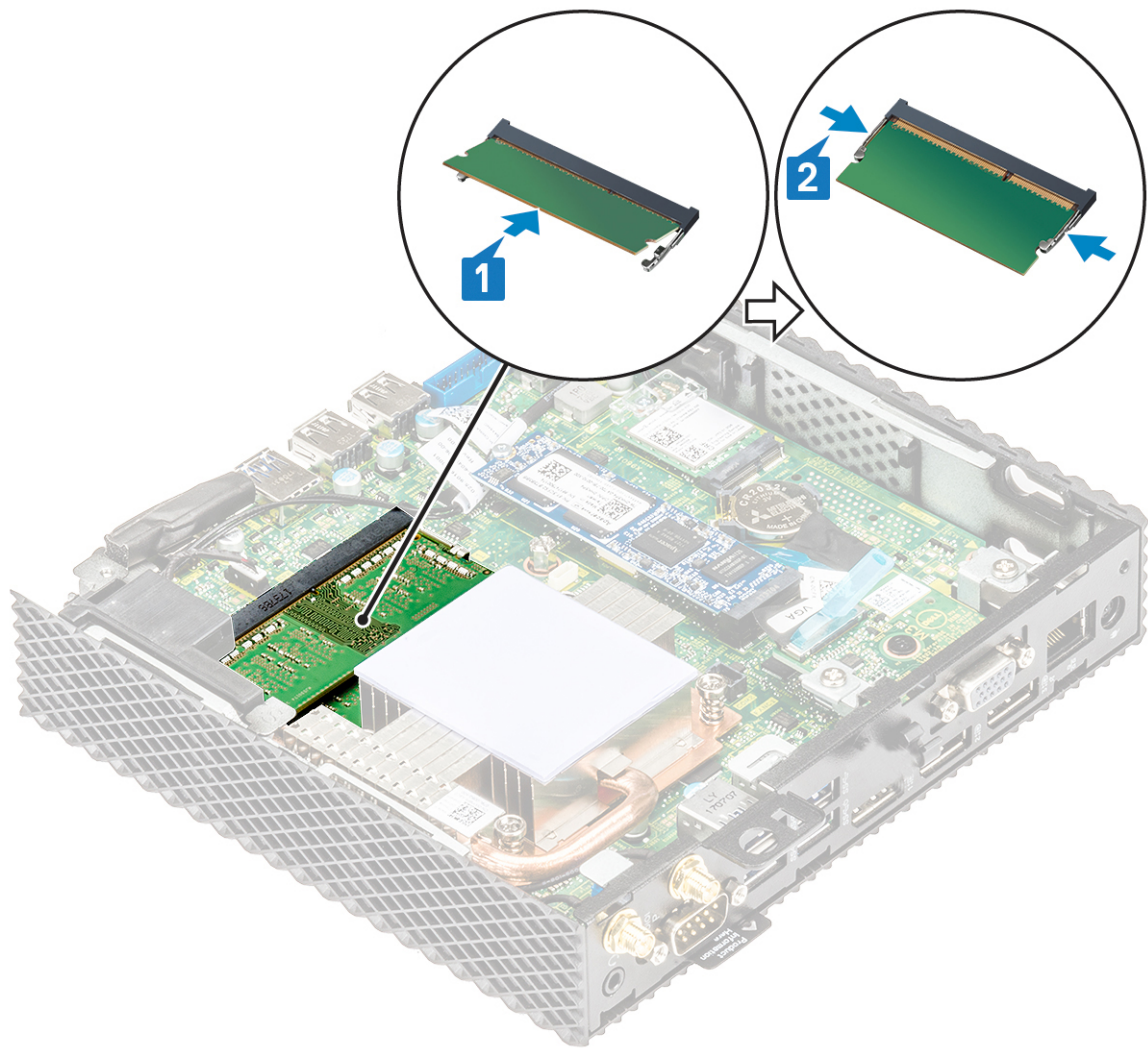


Figure 20. Installing memory module

3. Follow the procedure in [After working on your thin client.](#)

Postrequisites

1. Replace the [CAC reader.](#)
2. Replace the [Chassis cover.](#)

Technical specifications

This section provides the technical specifications of the Wyse 5070 thin client features.

Topics:

- [System specifications](#)
- [Processor specifications](#)
- [Operating systems](#)
- [Memory](#)
- [Storage](#)
- [Audio specifications](#)
- [Communication specifications](#)
- [Ports and connectors specifications](#)
- [Security](#)
- [Battery specifications](#)
- [AC adapter specifications](#)
- [Physical specifications](#)
- [Environmental specifications](#)

System specifications

This section describes the system specifications of the thin client.

Table 1. System specifications

Feature	Specification
Chipset	Intel Gemini Lake
DRAM bus width	64-bit
Flash EPROM	SPI 16 MB

Processor specifications

This section describes the processor details of the thin client.

Table 2. Processor specifications

Feature	Specifications	
Type	Intel Pentium Silver J5005 (Gemini Lake)	Intel Celeron J4105 (Gemini Lake)
Cache	4 MB	4 MB
Graphics EU (Execution Unit)	18	12
Maximum single core burst frequency	2.8 GHz	2.5 GHz
Thermal Design Power (TDP)	10 W	10 W

Operating systems

The following operating systems are supported for Wyse 5070 thin client:

- ThinLinux

- ThinOS
- ThinOS with PCoIP
- Windows 10 IoT Enterprise

Memory

This section describes the memory specifications of the thin client.

Table 3. Memory specifications

Feature	Specification
Memory connector	Two SODIMM slots
Memory capacity	4 GB (1 x 4 GB), 8 GB (2 x 4 GB)
Memory type	DDR4 SODIMM
Speed	2133/2400 MHz
Minimum memory	4 GB
Maximum memory	8 GB

Storage

This section describes the storage specifications of the thin client.

Table 4. Storage specifications

Feature	Specification
Interface	<ul style="list-style-type: none"> • One M.2 SSD • SATA 6 Gbps • Serial ATA v3.2 • Supports Self-Monitoring, Analysis and Reporting Technology (S.M.A.R.T) • Supports NCQ up to queue depth of 32
Solid-state drive	One M.2 2260/2280 slot
Connector type	75-pin SATA-based M.2 module pinout
Supply voltage	3.3 V +-5%
Operation temperature	0°C to 70°C
Capacity	<ul style="list-style-type: none"> • eMMC—16 GB and 32 GB • SSD—0, 32, 64, 128, 256, and up to 512 GB

Audio specifications

This section describes the audio specifications of the thin client.

Table 5. Audio specifications

Feature	Specification
Controller	Realtek ALC3253 and Intel
Internal interface	<ul style="list-style-type: none"> • High-definition audio codec • DP audio

Table 5. Audio specifications (continued)

Feature	Specification
External interface	<ul style="list-style-type: none"> Headset/mic combo jack at front and rear panels. Headphone jack

Communication specifications

This section describes the communication specifications of the thin client.

Table 6. Communication specifications

Feature	Specification
Network adapter—onboard	10/100/1000 Mb/s Ethernet—RJ45
Second network adapter (optional)	10/100/1000 Mb/s Ethernet (RJ45) or (100/1000) SFP
Wireless card	One M.2 2230 WLAN slot
Antenna	<ul style="list-style-type: none"> Dual external antenna connected to the Wireless card Frequency (GHz)—2.4 and 5
Wireless options	<ul style="list-style-type: none"> Intel Dual Band Wireless-AC 2x2 USB 2.0 interface for Bluetooth 4.0

Ports and connectors specifications

This section provide details about the ports and connectors in the thin client.

Table 7. Ports and connectors specifications

Feature	Specification	
Audio	<ul style="list-style-type: none"> Two headset/mic combo jacks—Pentium. Rear headset port is present in Pentium model only. One headphone jack—Pentium One headset jack—Celeron 	
Video	<ul style="list-style-type: none"> Two DisplayPort v1.2a supports up to two displays, at 4Kx60 Hz One DisplayPort v1.2a, without audio—Pentium One VGA—optional 	
Network adapter	<ul style="list-style-type: none"> One RJ45 connector Second RJ45 or SFP module (fiber and 1Gbps copper)—optional 	
USB	Front	Back
	<ul style="list-style-type: none"> One USB 2.0 port One USB 2.0 port with PowerShare One USB Type-C port One USB 3.0 port 	<ul style="list-style-type: none"> One USB 3.0 with Smart Power-on Three USB 3.0 ports
Common Access Card reader	Accepts 1.8 V, 3 V, and 5 V cards	

Security

The section provides security options available for Wyse 5070 thin client:

- TPM chip onboard v2.0
- Chassis intrusion detection

- Kensington lock
- Pad lock

NOTE: The length of the Pad/Kensington lock is 1.54 cm (0.60 inch).

Battery specifications

The Wyse 5070 thin client supports the following coin-cell battery:

Table 8. Battery specifications

Feature	Specification
Coin-cell battery	3 V CR2032 lithium coin-cell battery

NOTE:

- **Do not ingest the battery, as it will cause chemical burn hazard.**
- **If the coin / button cell battery is swallowed, it can cause severe internal burns in just two hours, and can lead to death.**
- **Keep the new and used batteries away from children.**
- **If the battery compartment does not close securely, stop using the thin client and keep it away from children.**
- **If the batteries have been swallowed, seek medical attention immediately.**

AC adapter specifications

This section describes the power adapter specifications of the thin client.

Table 9. AC adapter specifications

Feature	Specification
Type	65 W and 90 W
Input voltage	100-240 VAC
Input current (maximum)	1.7 A (65 W)/1.5 A (90 W)
Input frequency	50-60 Hz
Output current	3.34 A (65 W)/4.62 A (90 W)
Rated output voltage	19.5 VDC
Temperature range (Operating)	0 ~ 40° C (32 ~ 104° F)
Temperature range (Non-Operating)	-40 ~ 70° C (-40 ~ 158° F)

Physical specifications

This section describes the physical dimensions of the thin client.

Table 10. Physical specifications

Feature	Specification
Height	18.4 cm (7.24 inches)
Width	3.56 cm (1.4 inches)
Depth	18.4 cm (7.24 inches)
Starting weight	1.13 kg (2.5 lb)

Environmental specifications

This section describes the environmental specifications of the thin client.

Table 11. Environmental specifications

Feature	Specification
Temperature	
Operating	0° ~ 40° C (32 ~ 104° F)
Storage	-40° ~ 70° C (-40° ~ 158° F)
Relative humidity—maximum	
Operating	95% non-condensing
Storage	95% non-condensing
Altitude—maximum	
Operating	5000 m (16404.2 ft)
Non-operating	10668 m (35000 ft)
Airborne contaminant level	Not applicable

Wyse 5070 thin client configuration on ThinOS

This section provides the instructions on how to easily configure and efficiently manage Wyse 5070 thin client that runs on ThinOS. .

Topics:

- [Introduction](#)
- [Logging on to the Wyse 5070 thin client running Wyse ThinOS](#)
- [Configuring ThinOS using the First Boot Wizard](#)
- [Local settings menu](#)
- [Configuring the printer settings](#)

Introduction

Thin clients running Dell Wyse ThinOS firmware are designed solely for optimal thin client security and performance. These efficient purpose-built thin clients are virus and malware resistant, and offer ultrafast access to applications, files and network resources within Citrix, Microsoft, VMware and Dell vWorkspace environments, and other leading infrastructures. ThinOS based thin clients are self-managed, go from power-on to fully productive in seconds, and with no published API, locally accessible file system or browser, require no local McAfee Anti-Virus software or firewall to protect against viruses or malware.


Logging on to the Wyse 5070 thin client running Wyse ThinOS

What you see after logging on to the server depends on the administrator configurations.

- **Users with a Classic Desktop** - will see the classic ThinOS desktop with full taskbar, desktop, and Connect Manager familiar to ThinOS users. This option is the default out-of-the-box experience and is recommended for terminal server environments with published applications and for backward compatibility with ThinOS 6.x versions.
- **Users with a Zero Desktop** - will see the Zero Desktop with the Zero Toolbar showing the assigned list of connections from which to select. This option is recommended for VDI and any full-screen only connections.

In any desktop case, you can select the desktop option you want (Classic Desktop or Zero Desktop) and create the connections you need using the Visual Experience tab on the **Remote Connections** dialog box.

To open the **Remote Connections** dialog box, perform one of the following tasks:

- **Classic Desktop** — Click User Name , and then select **System Setup > Remote Connections**.
 **NOTE: User Name is the user who is logged-on and is located at the lower-left pane of the taskbar**
- **Zero Desktop** — Click the **System Settings** icon on the Zero Toolbar, and then select **Remote Connections**.

Configuring ThinOS using the First Boot Wizard

The First Boot Wizard runs the first time you start a new thin client with the ThinOS version 8.5. The thin client starts the First Boot Wizard application before you enter the ThinOS system desktop, and allows you to perform a set of tasks, such as, configuring system preferences, setting up the internet connectivity, loading USB configurations, configuring management software, and configuring broker connections.

If you are an existing thin client user, and you have upgraded to the ThinOS version 8.5, then you can reset your thin client to factory default settings to enter the First Boot Wizard.

The First Boot Wizard runs the first time you start a new thin client with the ThinOS version 8.5.1. The thin client starts the First Boot Wizard application before you enter the ThinOS system desktop, and allows you to perform a set of tasks, such as, configuring system preferences, setting up the internet connectivity, loading USB configurations, configuring management software, and configuring broker connections.

You can also reset your thin client to factory default settings to enter the First Boot Wizard.

To configure the First Boot Wizard:

1. Connect a new thin client or existing thin client to the Ethernet using a wired connection. The existing thin client must be reset to factory default settings to enter the First Boot Wizard.
2. Turn on your thin client.
The thin client checks for a wired network connection. If the network connection is successful, a welcome screen with the model name of your thin client is displayed.

The thin client validates the IP address from DHCP. If the DHCP contains the file server or the Wyse Device Manager or Wyse Management Suite configurations, then the ThinOS system desktop is loaded without entering the First Boot Wizard. If the DHCP validation fails or if you have not connected to Ethernet, then follow the next step.

i **NOTE:** To exit the First Boot Wizard during the network connection status check on the welcome screen, press the **Ctrl + Esc** key.

3. On the **Would you like to load a ThinOS configuration file from USB?** screen, do either of the following:
 - To load a ThinOS configuration file from the USB drive, ensure that you create a `wnos.ini` file and add the file to the `/wnos` directory on the USB drive. Using this option, you can load packages, and wallpapers that are specified in the INI file. Plug in the USB drive to thin client, and click **Yes**.

i **NOTE:** Only FAT, FAT32, and ExFAT file systems on the USB disk are supported. NTFS file system is not supported.

The thin client validates the configuration file in the USB drive.

- If the ThinOS configuration file in the USB drive is correct, the **Read configuration success** message is displayed. Click **OK** to exit the First Boot Wizard, and log in to the ThinOS system desktop.
- If the ThinOS configuration file in the USB drive is corrupted or the appropriate file is not available, then the **Cannot find configuration files, or read configuration failure** message is displayed. Upload the correct file on the USB drive, plug the USB drive again, and then click **Retry**. If the file is correct, the **Read configuration success** message is displayed. Click **OK** to exit the First Boot Wizard, and log in to the ThinOS system desktop.

If you do not want to use the **Retry** option to load the ThinOS configuration file, then click **Abort** to enter the **System Preferences configuration** setup.

i **NOTE:** To exit the **Cannot find configuration files, or read configuration failure** message screen, and load the ThinOS system desktop, click **Exit**.

- To enter the **System Preferences configuration** setup, click **No**.
4. On the **System Preferences Configuration** screen, configure the following options:
 - **Locale**—Select a language to start ThinOS in the regional specific language.
 - **Keyboard Layout**—Select a keyboard layout to set the keyboard layout in the regional specific language.
 - **Time Zone**—Select a time zone to set the time zone for your thin client.
 - **Time Server**—Displays the IP addresses or host names with optional port number of time servers.
 - **Advanced**—Click **Advanced** to configure settings, such as daylight saving, time format, date format, and time servers.

i **NOTE:** To exit the **System Preferences Configuration** screen, and load the ThinOS system desktop, click **Exit**.

If you are not connected to Ethernet, you cannot continue with the setup, and the **Attach the Ethernet cable** screen is displayed. Do either of the following:

- Connect the Ethernet cable to the thin client.
- Click **Define a wireless connection**. From the list, select a wireless network, and click **Connect**.

i **NOTE:**

- **The option to define a wireless connection is not available on thin clients without a WLAN module.**
- **To exit the Attach the Ethernet cable screen, and load the ThinOS system desktop, click Exit.**

After the connection is established, the thin client validates the IP address from DHCP. If the DHCP contains the file server or the Wyse Device Manager or Wyse Management Suite configurations, then the ThinOS system desktop is loaded. If the DHCP validation fails, or the network connection fails, then the **Management Configuration** screen is displayed. Follow steps 6–9.

5. Click **Next** to enter the **Management Configuration** setup.
6. On the **Management Configuration** screen, configure the following:
 - **File Server**—Enter the file server details to apply configurations including INI files, firmware, packages, and so on, from a file server.
 - **WMS**—Enter the group registration key and the Wyse Management Suite server URL to register the thin client to the Wyse Management Suite.

- **WDM**—Enter the IP addresses or host names.
- **Disable SSL warning**—Select this check box to disable the SSL (Secure Sockets Layer) connection warnings.
- **Certificates Manager**—Click **Certificates Manager** to import or request a certificate.

NOTE: To exit the Management Configuration screen, and load the ThinOS system desktop, click **Exit**.

7. Click **Done** to exit the First Boot Wizard or click **Next** to enter the **Connection Broker Configuration** setup.
8. On the **Connection Broker Configuration** screen, configure the following:
 - **Citrix**—The broker allows you to connect to full desktops using XenDesktop or individual applications using XenApp from a centralized host through Citrix Receiver Client.
 - **Server Address**—Enter the host name or IP address of the broker connection.
 - **Enable theme: ThinOS Lite**—Select this check box to boot the thin client in ThinOS Lite mode.
 - **StoreFront style**—Select this check box to enable the Citrix StoreFront based layout of published applications and desktops on the thin client.
 - **Microsoft**—The broker allows you to connect to the virtual desktops using RemoteApp and Desktop connection. Enter the host name or IP address of the broker connection.
 - **VMware**—The broker allows you to connect to the remote desktops using VMware Horizon Client.
 - **Server Address**—Enter the host name or IP address of the broker connection.
 - **Enable theme: VMware View**—Select this check box to set the ThinOS desktop theme to VMware View mode.
 - **DELL**—The broker allows you to connect to the virtual desktops or applications using Dell vWorkspace. Enter the host name or IP address of the broker connection.
 - **Amazon WorkSpaces**—The broker allows your PCoIP clients to connect to virtual desktops that run on AWS. Enter the host name/IP address/FQDN of the broker connection.

NOTE: Amazon WorkSpaces option is applicable only to the PCoIP clients.
 - **Other**—The broker allows you to connect to the virtual desktops or applications using other supported protocols. Enter the host name or IP address of the broker connection.
 - **Certificates Manager**—Click **Certificates Manager** to import or request a certificate.
 - **Disable SSL warning**—Select this check box to disable the warnings for your SSL (Secure Sockets Layer) connection.
9. Click **Done**.

NOTE: To configure the Management Configuration setup again, click **Back**, and follow steps 6 and 7.

The device exits from the First Boot Wizard mode, and the ThinOS desktop is displayed.

Local settings menu

To access the Local settings menu:

- **Zero desktop** — Click the **System Settings** icon on the Zero toolbar. Administrators can also click the **Admin Mode** button on the **Login** dialog box.
- **Classic desktop** — Click **User Name**, and select **System Setup**.

NOTE: User Name is the user who is logged-on.

Configuring the keyboard settings

To configure the keyboard settings:

1. From the desktop menu, click **System Setup**, and then click **Peripherals**. The **Peripherals** dialog box is displayed.
2. Click the **Keyboard** tab and set the Character Set, Keyboard Layout, Delay Before Repeat and Repeat Rate parameters. The following table explains the keyboard parameters.

Table 12. Keyboard parameters

Parameter	Description
Character Set	Lists the character sets. Each character is represented by a number. The ASCII character set, for example, uses the numbers 0 through 127 to represent all English characters and special control characters. European ISO character sets are similar to ASCII, but they contain additional characters for European languages.
Keyboard Layout	Presently the keyboard languages listed in the Keyboard layout drop-down list are supported. The default value is English (United States) .
Delay Before Repeat	Lists the repeat parameters. Select Delay Before Repeat value as either 1/5 second , 1/4 second , 1/3 second , 1/2 second , 3/4 second , 1 second , 2 seconds , or No Repeat . The default is 1/3 second .
Repeat Rate	Select Slow , Normal , or Fast . The default value is Medium .

3. Click **OK** to save the settings.

Configuring the mouse settings

To configure the mouse settings:

1. From the desktop menu, click **System Setup**, and then click **Peripherals**. The **Peripherals** dialog box is displayed.
2. Click the **Mouse** tab, select the mouse speed and mouse orientation.
3. Select the **Swap left and right mouse buttons** check box to swap mouse buttons for left-handed operations.
4. Click **OK** to save the settings.

Configuring the display setup

Use the **Display Setup** dialog box to configure the display settings for the connected monitors.

To configure the display setup:

1. From the desktop menu, click **System Setup**, and then click **Display**. The **Display Setup** dialog box is displayed.
2. In the **Display Setup** dialog box, configure the following options:

- **Mirror mode**—Select the **Mirror mode** check box to enable all connected monitors to use the same display settings configured on the primary monitor.

The following screen represents the Mirror mode configuration.

If you clear the **Mirror mode** check box, the **Span Mode** is enabled. The following screen represents the span mode configuration.

Blocks displayed on the screen represent the number of monitor screens connected to thin client. Each block represents a single monitor screen.

Every monitor contains a unique display order number and display configuration. To construct a new display layout, move the blocks to your preferred position, and click **Apply**. A new display layout is created. However, the system sets the block to its default position if the block is moved to an incorrect position.

i **NOTE:** Wyse 5070 thin client supports up to six monitors.

- **Main screen**—Select the **Main screen** check box to set the monitor as primary monitor or main screen. To set a monitor as main screen, click the monitor block, and select the **Main screen** check box. After you set the monitor as main screen, the monitor block is highlighted with an underline, and the **Main screen** option is disabled for that monitor block. The **Main screen** option is available for other monitor blocks.

i **NOTE:** Main screen option is effective only in Span Mode and always disabled in Mirror Mode.

- **Resolution**—From the **Resolution** drop-down list, select a display resolution supported by your monitor.

In **Mirror Mode**, the resolution list is derived from the intersection of resolutions in all connected monitors.

In **Span Mode**, select a monitor block and change its resolution from the **Resolution** drop-down list.

• **Rotation**—From the **Rotation** drop-down list, select an option to rotate the monitor screen in different directions—**Left turn 90 degrees** or **Right turn 90 degrees**. By default, the option is set to **None**.

3. Click **Apply**.
The new display settings are applied, and you can see the modified display.
4. Click **OK** to confirm the new settings.

 **NOTE:** Use the **Identify** option, to know the display order number of the connected monitors.

Configuring the LPD settings

1. From the desktop menu, click **System Setup**, and then click **Printer**.
The **Printer Setup** dialog box is displayed.
2. Click the **LPDs** tab, and use the following guidelines when printing to a non-Windows network printer:

 **NOTE:** Be sure to check with your vendor that the printer can accept from **Line Printer Request**.

- a. **Select LPD** —Select the required port from the list.
- b. **Printer Name** —(Required) Enter the name of the printer that is displayed on the Windows printer driver.
- c. **Printer Identification**—Enter the name of the printer exactly as it appears on the Windows printer driver.


In an MS Windows system, this name is either the device driver name of the printer or a key to map the printer to the device driver. The name will be defaulted to the printer-supplied identification for standard direct-connected USB printers or **Generic / Text** for non-USB connected printers on connection to Windows hosts. The driver name mapping takes place either through a printer-mapping file read by the system as part of the global profile (wnos.ini) or by MetaFrame servers through the MetaFrame printer configuration file (\winnt\system32\wtsprnt.inf).

- d. **LPD Hosts**—The DNS or WINS name of the server for the network printer. An IP address of the printer on the network can also be entered.

If the printer is attached to another thin client on your network, the entry in the LPD Hosts box is the name or address of that thin client.

- e. **LPD Queue Name** — An LPD host maintains a named queue for each supported printer. Enter the name of the queue associated with the printer to be used.

This name can be different for each vendor. This is a required field, and you must ensure to add the correct queue name, as the network printer uses this name for mapping the incoming print jobs. For example, auto can be used for HP LaserJet 4200n PCL6 as per documentation found on the HP Web site.

 **NOTE:** If the printer is attached to another thin client on your network, the LPD Queue Name must match the content of the **Printer Name** box displayed on the thin client.

- f. **Printer Class** — (Optional) Select the printer class from the list.
 - g. **Enable the printer device** — Select this option to enable the printer on a remote device.
3. Click **OK** to save the settings.

Configuring the printer settings

Use the **Printer Setup** dialog box to configure network printers and local printers that are connected to the thin client. A thin client has multiple ports that can be used for connecting multiple printers. You can also connect multiple printers to a single port by using a USB hub.

Configuring the ports settings

To configure the ports settings:

1. From the desktop menu, click **System Setup**, and then click **Printer**.
The **Printer Setup** dialog box is displayed.
2. Click the **Ports** tab, and use the following guidelines:
 - a. **Select Port**— Select the required port from the list. **LPT1** or **LPT2** are directly connected to the USB printer..

- b. **Printer Name** — (Required) Enter name you want displayed in your list of printers.

Most USB direct-connected printers report/fill in their printer name automatically.

NOTE: If Enable LPD service for the printer is selected, the printer name becomes the queue name for other clients that are using LPR to print to this printer.

- c. **Printer Identification** — Enter the printer name and model in the **Windows printer driver name**—including capitalization and spaces, most USB direct-connected printers report/fill in their printer identifications automatically.

This entry must be either the device driver name for the printer under the Microsoft Windows system, or a key to map to the device driver. The printer name is used to identify standard direct-connected USB printers or **Generic / Text Only** for non-USB connected printers on Windows hosts. The driver name mapping takes place either through a printer-mapping file read by the system as part of the global profile (wnos.ini) or by MetaFrame servers through the MetaFrame printer configuration file (\winnt\system32\wtsprnt.inf).

NOTE: The maximum characters allowed in the Printer Identification field is 31. If your printer driver string is more than 31 characters (including space), you can create a txt file (printer.txt) and upload to your file server. Edit the txt file and type the content, such as "HP Color" = "HP Color LaserJet CM1312 MFP PCL6 Class Driver". Add the command line `printermap=printer.txt` to your wnos.ini file. Now, you can type "HP Color" in the Printer Identification field instead of the full driver string.

- d. **Printer Class**— This is optional. Select the printer class from the list.
- e. **Enable the printer device** — Select this option to enable the directly-connected printer. It enables remote host to display the device.
- f. **Enable LPD service for the printer** — Select this to make the thin client. Write the spelled out for first, with abbreviation in parentheses.

NOTE:

If the thin client is to be used as an LPD printer server, DHCP must not be used and a static IP address must be assigned to the client.

3. Click **OK** to save the settings.

Configuring the LPD settings

- From the desktop menu, click **System Setup**, and then click **Printer**. The **Printer Setup** dialog box is displayed.
- Click the **LPDs** tab, and use the following guidelines when printing to a non-Windows network printer:

NOTE: Be sure to check with your vendor that the printer can accept from Line Printer Request.

- Select LPD** —Select the required port from the list.
- Printer Name** —(Required) Enter the name of the printer that is displayed on the Windows printer driver.
- Printer Identification**—Enter the name of the printer exactly as it appears on the Windows printer driver.

In an MS Windows system, this name is either the device driver name of the printer or a key to map the printer to the device driver. The name will be defaulted to the printer-supplied identification for standard direct-connected USB printers or **Generic / Text** for non-USB connected printers on connection to Windows hosts. The driver name mapping takes place either through a printer-mapping file read by the system as part of the global profile (wnos.ini) or by MetaFrame servers through the MetaFrame printer configuration file (\winnt\system32\wtsprnt.inf).

- LPD Hosts**—The DNS or WINS name of the server for the network printer. An IP address of the printer on the network can also be entered.

If the printer is attached to another thin client on your network, the entry in the LPD Hosts box is the name or address of that thin client.

- LPD Queue Name** — An LPD host maintains a named queue for each supported printer. Enter the name of the queue associated with the printer to be used.

This name can be different for each vendor. This is a required field, and you must ensure to add the correct queue name, as the network printer uses this name for mapping the incoming print jobs. For example, auto can be used for HP LaserJet 4200n PCL6 as per documentation found on the HP Web site.

 **NOTE:** If the printer is attached to another thin client on your network, the LPD Queue Name must match the content of the Printer Name box displayed on the thin client.

- f. **Printer Class** — (Optional) Select the printer class from the list.
 - g. **Enable the printer device** — Select this option to enable the printer on a remote device.
3. Click **OK** to save the settings.

Configuring the SMBs settings

1. From the desktop menu, click **System Setup**, and then click **Printer**.
The **Printer Setup** dialog box is displayed.
2. Click **SMBs** tab, and use the following guidelines when printing to a Windows network printer.
 - a. **Select SMB**—Select the SMB you want from the list.
 - b. **Printer Name**—(Required) Enter the name to be displayed in your list of printers.
 - c. **Printer Identification**—Enter the type or model of the printer in the exact text of the Windows printer driver name—including capitalizations and spaces.

This name must be either the device driver name for the printer under the Microsoft Windows system, or a key to map to the device driver. If not specified, the name will be defaulted to the printer-supplied identification for standard direct-connected USB printers or **Generic / Text** for non-USB connected printers upon connection to Windows hosts. The driver name mapping takes place either through a printer-mapping file read by the system as part of the global profile (wnos.ini) or by MetaFrame servers through the MetaFrame printer configuration file (\winnt\system32\wtsprnt.inf).

- d. **\\Host\Printer**—Enter the Host\Printer or use the browse folder icon next to the box to browse your Microsoft Networks and make the printer selection you want from the network printers available (the DNS name or IP address of the Windows print server on the network).
- e. **Printer Class** —(Optional) Select the printer class from the list.
- f. **Enable the printer device**—Must be selected to enable the printer. It enables the device so it displays on the remote host.
- g. **Enable LPD service for the printer**—Select this to make the thin client an LPD (Line Printer Daemon) network print server for LPR printing requests from the network.

If the thin client is to be used as an LPD printer server, DHCP must not be used and a static IP address must be assigned to the thin client as described in network settings.

3. Click **OK** to save the settings.

Using the printer setup options

To configure the printer setup options:

1. From the desktop menu, click **System Setup**, and then click **Printer**.
The **Printer Setup** dialog box is displayed.
2. Click the **Options** tab, and do the following:
 - a. **Default Printer** —From the list of available printers, select the printer that you want to be default printer.
 - b. **Enable .print Client** and **Port** —If you want to enable .print Client, select **Enable print Client** , and then enter the port name.
3. Click **OK** to save the settings.

Wyse 5070 thin client on ThinLinux

This section provides instructions on how to easily configure and efficiently manage Wyse 5070 thin client that runs on ThinLinux.

Topics:

- [Introduction](#)
- [Logging on to the Wyse 5070 thin client running ThinLinux](#)
- [Configuring peripherals settings on Wyse ThinLinux](#)

Introduction

The thin clients running Wyse ThinLinux from Dell simplifies the user management paradigm with elegant application icons and comes with a single built-in user to enhance user experience along with having the benefits of a single-operating system. ThinLinux running on thin client combines the security, flexibility, and market-leading usability of enterprise-grade Linux with Dell's thin computing optimizations in management. It is ideal for organizations that want to run server-based, Web-based, or local applications including legacy applications without the deployment and security concerns of a nonstandard Linux distribution.

Logging on to the Wyse 5070 thin client running ThinLinux

On your initial configuration, Dell recommends that you connect by using a wired connection by plugging in the network connected ethernet cable to your thin client.

After you turn on your thin client, you are automatically logged in to the local **thinuser** account. By default, the password of the thinuser account is set to **thinuser**.

NOTE: In cases where a GDM login is needed (for example, AD/Domain login, PNAgent login and so on), the auto-login option can be turned off through the GUI or by using the INI.

Admin mode enables you to perform system administration tasks such as adding or removing connections and setting up specific device settings. To enter into the **Admin** mode, click the **Switch to Admin** button from **Setting application** screen to admin mode and then enter the default root password in the **Password Needed** window. The default root password is **admin**.

Configuring peripherals settings on Wyse ThinLinux

On the **System Settings** page, click the **Peripherals** icon. The following tabs are displayed on the left pane of the System Settings page.

- Keyboard
- Mouse
- Printers
- Sound

Setting the keyboard preferences

The **Keyboard** setting page enables you to set the Keyboard preferences and make the Keyboard layout.

NOTE: By default, the **Keyboard** screen is available in both **User mode** and **Admin mode**. Any changes made through **Keyboard preferences** screen is saved and continued for the built-in thinuser

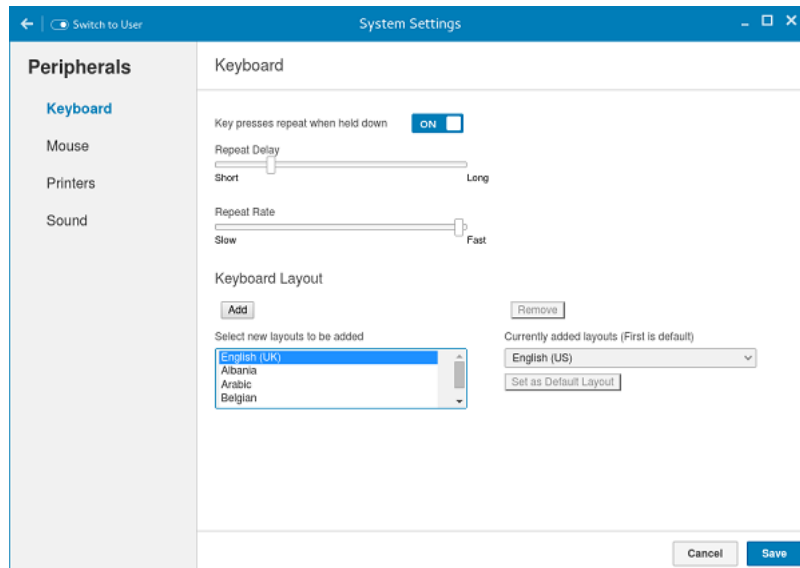


Figure 21. Keyboard Preferences

1. Click the **ON/OFF** button to disable or enable the **Key presses repeat when held down** option after you log in to the session.
2. Move the slider to the left to decrease the repeated delay time of the pointer or move the slider to the right to increase the repeated delay time of the pointer.
3. Move the slider to the left to decrease the repeat rate of the pointer or move the slider to the right to increase the repeat rate of the pointer.
4. In the **keyboard layout** box, select the layout you want to use and click **Add** to include the preferred layout in the **currently added layouts** list.
5. Select the preferred keyboard layout from the currently added layouts list, and click **Set as Default Layout** button to set the default layout.

NOTE: The default keyboard layout is listed on the top of the currently added layout list.

6. Click **Save** to save your changes.

Customizing the display for Wyse 5070 thin client

By default, the **Customize your display** screen is available in both user mode and admin mode. Any changes to display preferences are saved and available for the built-in user named **thinuser**. In a **Dual-monitor** configuration, if both monitors are connected, then by default, the monitors are in extended mode. The primary monitor is on the left (monitor 1), and the secondary monitor is on the right (monitor 2). The resolutions of the monitors are auto detected by the system by analyzing the monitor capabilities.

To customize the display, do the following:

1. Click the **Display** tab.
The **Customize Your Display** page is displayed.
2. From the **Resolution** drop-down list, select the preferred resolution.
3. From the **Rotation** drop-down list, select the rotation.
 - Normal
 - Right
 - Left
 - Upside-down
4. To switch between dual display and mirror mode in a dual monitor configuration, click the **ON/OFF** button.
5. To enable the **Set as primary** option, click the **ON/OFF** button. This option allows you to set the selected monitor as primary.
6. To enable the **monitor On/Off** option, click the **ON/OFF** button. This option allows you to turn off and turn on the preferred monitor in a dual monitor configuration.

Setting the mouse preferences

By default, the **Mouse** screen is available in both User mode and Admin mode. Any changes made through the Mouse preferences screen is saved and continued for the built-in thinuser.

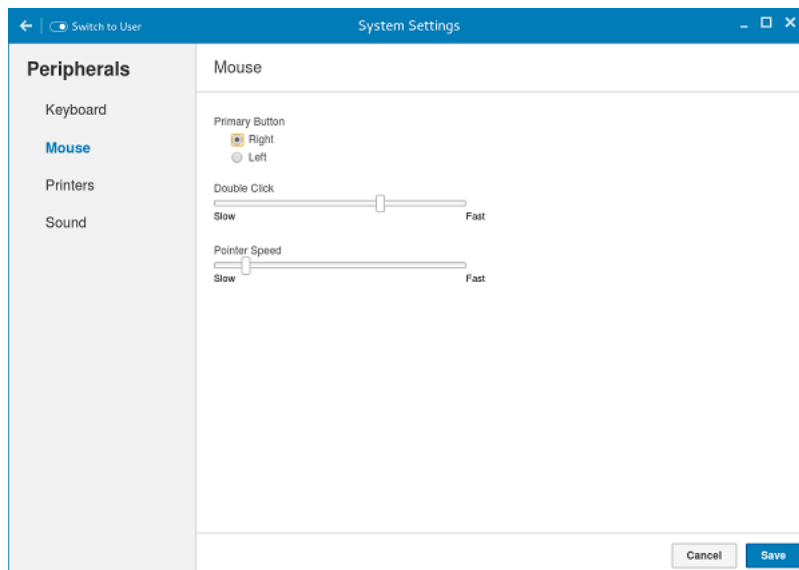


Figure 22. Mouse Preferences

The Mouse setting page enables you to set the Mouse preferences.

1. Click **Right** or **Left** to set the **primary button** of the mouse.
2. Move the slider to the left to increase the speed of the pointer when double-clicked or move the slider to the right to decrease the length of double-clicked.
3. Move the slider to the left to increase the speed of the mouse pointer or move the slider to the right to decrease the speed of the mouse pointer.
4. Click **Save** to save your changes.

Configuring the printer settings

By default, the **Printers** screen is available only in Admin mode. On the **Printer setting** page, click the printer icon to start the **gnome-control-center printer**.

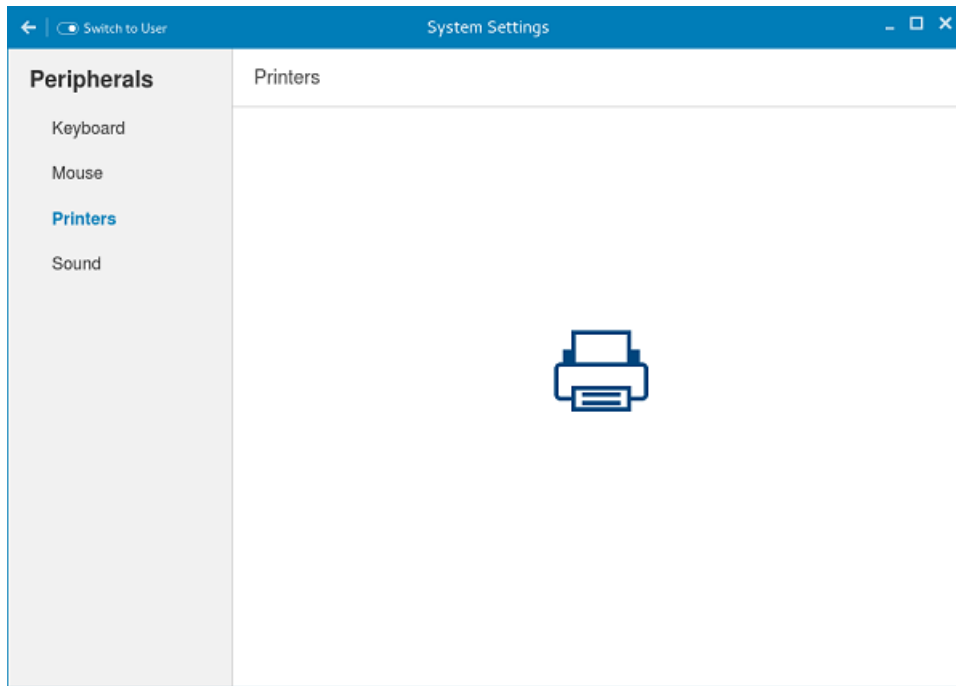


Figure 23. Printer Settings

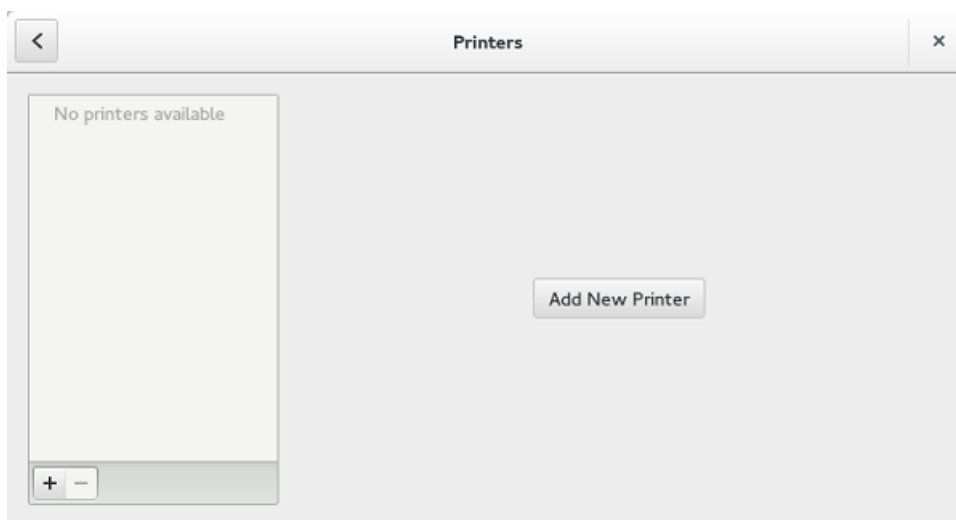


Figure 24. Add New Printer

1. Click the printer icon.
The **gnome-control-center printer** dialog box is displayed.
2. Click **Add New Printer** button to include the new printer in the printers list available on the left pane.
The **Add a new printer** window is displayed.
3. Enter the address of the printer or the text to filter results.
NOTE: If a USB printer is connected, then it is displayed by default. The printer is not found if wrong address is provided or the USB is not attached.
4. Click the **Add** option. Click **Print Test Page** to test the printer and click (-) icon to remove the printer.

Wyse 5070 thin client on Windows 10 IoT Enterprise

This section provides the instructions on how to easily configure and efficiently manage Wyse 5070 thin client that runs on Windows 10 IoT Enterprise.

Topics:

- [Introduction](#)
- [Before configuring your thin clients](#)
- [Automatic and manual login](#)
- [Keyboard and region settings](#)
- [Devices and printers](#)

Introduction

The thin clients running Windows 10 IoT Enterprise provide access to applications, files, and network resources. The applications and files are made available on machines hosting Citrix Receiver, Microsoft Remote Desktop Connection, VMware Horizon client session, and Dell Wyse vWorkspace services.

Other locally installed software permits remote administration of the thin clients and provides local maintenance functions. More add-ons are available that support a wide range of specialty peripherals and features for environments that require a secure user interface with 64-bit Windows compatibility. Your thin client device supports Microsoft Silverlight, Microsoft Lync VDI 2013 plug-in, and Microsoft .Net Framework 4.6 or later versions. For more information, see [Microsoft Website](#)

Before configuring your thin clients

Before you configure your thin clients, ensure that you configure Unified Write Filter and xData Cleanup Manager that protect your thin clients. The Unified Write Filter Utility prevents undesired flash memory writes, and xData Cleanup Manager cleans up extraneous information from being stored on the local disk.

However, there are instances where administrators can retain the changed configurations after you log out and restart the thin client.

Automatic and manual login

What you see when a thin client turns on or reboots depends on the administrator's configuration. After creating a user account, an administrator can configure the account to log in automatically or manually with user credentials. Ensure that you disable the Unified Write Filter (UWF) before you change a password on the thin client, and then enable UWF after your change. To change the password, press Ctrl+Alt+Delete, and then click **Change a password**. However, this feature is not applicable for **User** accounts.

CAUTION:

CAUTION: Please follow proper write filter and Windows Page File usage instructions at all times. Such instructions include making sure that the write filter is enabled during regular use and is disabled only temporarily by an administrator when required for image upgrades, applying security patches, registry changes and application installation. The write filter should be re-enabled as soon as such tasks are completed. Such instructions further include never enabling the Windows Page File feature during regular use of the thin client.

Any operation of a Dell Wyse Windows Embedded Thin Client with the write filter turned off during regular use and/or with the Windows Page file enabled will prematurely wear out your Flash/SSD storage, decrease performance and decrease the lifespan of the product.

Dell is not responsible for, and will not, warrant, support, repair or replace any thin client device or component that fails to operate properly due to a failure to follow these instructions.

When you start the thin client, you will automatically log in to the user desktop by default.

 **NOTE: The Windows icon on the taskbar is the start menu button.**

To log in as a different user or administrator:

1. Go to **Start > User icon > Sign Out** to log out from the current desktop.
2. Click anywhere on the lock screen to view the login window.
3. You can view the user accounts list on the screen. Click the preferred user account and then enter the login credentials.
 - **Administrators**—The default user name is **Admin** and the default case-sensitive password is **DellCCcVdi**.
 - **Users**—The default user name is **User** and default case-sensitive password is **DellCCcVdi**.
 - **Customized User**—Log in to your thin client by entering the user credentials which you have set for the customized user account.

If automatic login is not enabled, the login window displays when you boot the thin client device. You can log in using the options mentioned in **step 2** and **step 3**.

Enabling auto logon


Automatic logon to a user desktop is enabled by default on the thin client device. To enable or disable auto logon, and to change the default user name, password, and domain for a thin client, use the auto logon feature.

To enable/disable auto logon:

1. Log in as an administrator.
2. Go to **Start > Dell Thin Client Application**.
The **Dell Thin Client Application** window is displayed.
3. On the left navigation bar, click **Auto Logon**.
4. To start with the admin logon page, enter **Admin** in the **Default User Name** field.

 **NOTE: By default, the Enable Auto Logon check box is selected.**

5. If you want to start with the **Logon** window with default administrator and user selections and other accounts, clear the **Enable Auto Logon** check box.

 **CAUTION: To permanently save the information, disable/enable the Unified Write Filter (UWF). For more information, see [Before Configuring your thin clients](#).**

 **NOTE:**

If auto login is enabled and you log off from your current desktop, the lock screen is displayed. Click anywhere on the lock screen to view the Logon window. Use this window to log in to your preferred administrator or user account.

Keyboard and region settings


To select your regional formats including keyboard and the Windows display languages, use the **Region** dialog box.

To select your regional formats, do the following:

1. Log in as an administrator.
2. Go to **Start > Control Panel > Region**.
The **Region** dialog box is displayed.
3. In the **Formats** tab, select the language, date, and time.
To customize the formats, do the following:
 - a. Click **Additional Settings**.
The **Customize Format** window is displayed.
 - b. Customize the settings, and click **OK**.
4. Click **Apply**, and then click **OK**.
5. In the **Location** tab, select a particular location to display additional information such as news and weather.
6. In the **Administrative** tab, change the language to be displayed in programs that do not support Unicode, and copy the settings.

Devices and printers

To add devices and printers, use the **Devices and Printers** window.

 **CAUTION:** To refrain from cleaning up your settings, disable/enable the Unified Write Filter (UWF) and configure Application Launch Manager and xData Cleanup Manager. For more information, see [Before Configuring your thin clients](#).

To add a device or a printer to the thin client, do the following:

1. Log in as an administrator.
2. Go to **Start > Control Panel > Devices and Printers**.
The **Devices and Printers** window is displayed.

Adding printers

To add a printer to the thin client:

1. Click the **Devices and Printers** icon in Control Panel.
The **Devices and Printers** window is displayed.
2. To open and use the **Add a Printer** wizard, click **Add a Printer**.

The **Add a Printer** wizard session starts.

A Dell Open Print Driver is installed on the thin client along with other built-in print drivers. To print full text and graphics to a local printer, install the driver provided by the manufacturer according to the instructions.

Printing to network printers from **Citrix Receiver**, **Remote Desktop Connection** or **VMware Horizon Client** applications can be achieved through printer drivers on the servers.

Printing to a local printer from **Citrix Receiver**, **Remote Desktop Connection** or **VMware Horizon Client** application using the printer drivers of the server produces full text and graphics functionality from the printer. Install the printer driver on the server, and the text only driver on the thin client using the following procedure:

- a. Click **Add a local printer**, and click **Next**.
- b. Click **Use an existing port**, select the port from the list, and then click **Next**.
- c. Select the manufacturer and model of the printer, and click **Next**.
- d. Enter a name for the printer and click **Next**.
- e. Select **Do not share this printer** and click **Next**.
- f. Select whether to print a test page and click **Next**.
- g. Click **Finish** to complete the installation.

A test page will print after installation if this option was selected.

Configuring multi-monitor display

You can use the **Screen Resolution** window to configure dual monitor settings on your dual-monitor capable thin client device.

To open the **Screen Resolution** window, do the following:

1. Log in as an administrator.
2. Go to **Start > Control Panel > Display > Change Display Settings**.
The **Screen Resolution** window is displayed. For detailed instructions on how to configure the screen resolution, go to www.microsoft.com.

For information about setting up multiple monitors, see the *How to Set up Multiple Monitors in Windows 10* at support.dell.com.

BIOS overview

Topics:

- [Accessing thin client BIOS settings](#)
- [System Setup overview](#)
- [Boot Sequence](#)
- [Navigation keys](#)
- [General screen options](#)
- [System Configuration screen options](#)
- [Video screen option](#)
- [Security screen options](#)
- [Secure Boot screen options](#)
- [Performance screen options](#)
- [Power management screen options](#)
- [POST behavior screen options](#)
- [Wireless screen option](#)
- [Virtualization support screen options](#)
- [Maintenance screen options](#)
- [System Logs screen option](#)

Accessing thin client BIOS settings

This section describes about the Wyse 5070 thin client UEFI BIOS settings. While starting a thin client, a Dell logo is displayed for a short period.

1. During start-up, press the **F2** key, and enter the default password **Fireport**. The **BIOS** settings dialog box is displayed.
2. Use the **System Setup** settings to change the BIOS settings.

NOTE: There is an option to restore BIOS defaults, Factory Defaults, and Custom user settings for Users in the BIOS menu. BIOS default setting restores the values that was part of the BIOS file. Restoring Factory default restores the BIOS setting to the values that was configured in factory before shipping the client.

To access the boot menu during start-up, press the **F12** key. Use the **Boot Selection** menu to select or view the boot sequence order as follows:

- Boot from UEFI: Hard Drive, Partition 4
- Onboard NIC (IPV4)
- Onboard NIC (IPV6)

System Setup overview

System Setup allows you to:

- Change the system configuration information after you add, change, or remove any hardware in your thin client.
- Set or change a user-selectable option such as the user password.
- Read the current amount of memory or set the type of hard drive installed.

Before you use System Setup, Dell recommends that you write down the **System Setup** screen information for future reference.

CAUTION: Unless you are an expert thin client user, do not change the settings for this program. Certain changes can cause your thin client to work incorrectly.

Boot Sequence

Boot Sequence allows you to bypass the System Setup–defined boot device order and boot directly to a specific device. During the Power-on Self Test (POST), when the Dell logo appears you can:

- Access System Setup by pressing the F2 key
- Bring up the one-time boot menu by pressing the F12 key

The one-time boot menu displays the devices that you can boot from including the diagnostic option. The boot menu options are:

- UEFI Boot
 - UEFI: Hard drive, Partition 4
 - Onboard NIC (IPV4)
 - Onboard NIC (IPV6)
- Other options
 - BIOS Setup
 - BIOS Flash Update
 - Diagnostics

NOTE: If you select the Diagnostics option, the ePSA diagnostics screen is displayed. To access the System setup menu, click BIOS Setup.

Navigation keys

NOTE: For most of the System Setup options, changes that you make are recorded but do not take effect until you restart the system.

Table 13. Navigation keys

Keys	Navigation
Up arrow	Moves to the previous field.
Down arrow	Moves to the next field.
Enter	Selects a value in the selected field (if applicable) or follow the link in the field.
Spacebar	Expands or collapses a drop-down list, if applicable.
Tab	Moves to the next focus area. NOTE: This option is applicable for the standard graphics browser only.
Esc	Moves to the previous page until you view the main screen. Pressing Esc in the main screen displays a message that prompts you to save any unsaved changes and restarts the system.

General screen options

This section lists the primary hardware features of your computer.

Table 14. General screen options

Option	Description
System Information	This section lists the primary hardware features of your computer. <ul style="list-style-type: none">• System Information: Displays BIOS Version, Service Tag, Asset Tag, Ownership Tag, Ownership Date, Manufacture Date, Express Service Code, the Signed Firmware update—enabled by default• Memory Information: Displays Memory Installed, Memory Available, Memory Speed, Memory Channels Mode, Memory Technology, DIMM A Size, DIMM B Size

Table 14. General screen options (continued)

Option	Description
	<p>NOTE: Since Memory Available is less than the Memory Installed, certain operating systems may not be able to use all the available memory.</p> <ul style="list-style-type: none"> • PCI information: Displays Slot details, by default Slot1 is empty. • Processor Information: Displays Processor Type, Core Count, Processor ID, Current Clock Speed, Minimum Clock Speed, Maximum Clock Speed, Processor L2 Cache, Processor L3 Cache, HT Capable, and 64-Bit Technology • Device Information: Primary Hard Drive, EMMC Device, LOM MAC Address, 2nd NIC MAC Address, Video Controller, Audio Controller, Wi-Fi Device, Bluetooth Device
Boot Sequence	<p>This option enables you to change the order in which the system boots an operating system.</p> <ul style="list-style-type: none"> • Default Boot Sequence <ul style="list-style-type: none"> ○ UEFI: Hard Drive, Partition 4 ○ Onboard NIC(IPV4) ○ Onboard NIC(IPV6) • Boot List Option: You can add a boot option, delete an existing boot option, and view the boot options.
UEFI boot path security	<p>This option enables you to control the system prompt of How to enter the Admin Password (if set) when you boot a UEFI boot path from the F12 boot menu.</p> <p>The options include:</p> <ul style="list-style-type: none"> • Always, except internal HDD (default) • Always • Never
Date/Time	<p>This option enables you to change the system date and time.</p>

System Configuration screen options

Table 15. System Configuration options

Option	Description
UEFI Network Stack	<p>If the UEFI Network Stack option is enabled, the UEFI Networking Protocols are installed and allows pre-operating system and early operating system networking features to use any enabled NICs or SFP.</p> <p>The UEFI Network Stack option is enabled by default.</p>
Integrated NIC	<p>The Integrated NIC option controls the on-board LAN controller. The options include:</p> <ul style="list-style-type: none"> • Disabled—The internal LAN is off and not visible to the operating system. • Enabled—The internal LAN is enabled. • Enabled w/PXE—The internal LAN is enabled (with PXE boot). This option is enabled by default.
2nd NIC (RJ-45/SFP)	<p>The second NIC (RJ-45/SFP) option controls the second on-board NIC. The options include:</p> <ul style="list-style-type: none"> • Disabled

Table 15. System Configuration options (continued)


Option	Description
	<ul style="list-style-type: none"> • Enabled • Enabled w/PXE—This option is enabled by default
Parallel Port	<p>This option determines how the parallel port on the docking station operates. The options include:</p> <ul style="list-style-type: none"> • Disabled • AT—enabled by default • PS2 • ECP
Serial Port1	<p>This option determines how the serial port on the docking station operates. It allows you to avoid resource conflicts between devices by disabling or remapping the address. The options include:</p> <ul style="list-style-type: none"> • Disabled • COM1—enabled by default • COM2
SATA Operation	<p>This option configures the operating mode of the integrated SATA hard drive controller. The options include:</p> <ul style="list-style-type: none"> • Disabled • AHCI—enabled by default
Drives	<p>Allows you to configure the SATA drives on board.</p> <ul style="list-style-type: none"> • SATA-0 enabled by default
SMART Reporting	<p>This field controls whether the hard drive errors of integrated drives are reported during system startup.</p>
USB Configuration	<p>This is an optional feature.</p> <p>This field configures the integrated USB controller. If Boot Support is enabled, the system is allowed to boot any type of USB Mass Storage Devices such as hard drives and USB keys.</p> <p>If the USB port is enabled, the device attached to this port is enabled and available for the operating system.</p> <p>If the USB port is disabled, the operating system cannot detect any device attached to this port.</p> <p>The options include:</p> <ul style="list-style-type: none"> • Enable USB Boot Support—enabled by default • Enable Front USB Ports—enabled by default • Enable Rear USB Ports—enabled by default <p> NOTE: USB keyboard and mouse always work in the BIOS setup irrespective of these settings.</p>
Front USB Configuration	<p>This option enables or disables front USB ports. The options include:</p> <ul style="list-style-type: none"> • Front port Top—enabled by default • Front port Bottom Medium—enabled by default • Front port Top Medium—enabled by default • Front port Bottom—enabled by default
Rear USB Configuration	<p>This option enables or disables rear USB ports. The options are:</p> <ul style="list-style-type: none"> • Rear port Top Left—enabled by default • Rear port Bottom Left—enabled by default

Table 15. System Configuration options (continued)

Option	Description
	<ul style="list-style-type: none"> • Rear port Top Right—enabled by default • Rear port Bottom Right—enabled by default
USB PowerShare	This option configures the USB PowerShare feature and allows you to charge external devices through the USB PowerShare port when system is off. This option is enabled by default.
Audio	<p>This option enables or disables the integrated audio controller. By default, the Enable Audio option is selected. The options include:</p> <ul style="list-style-type: none"> • Enable Microphone—enabled by default • Enable Internal Speaker—enabled by default

Video screen option

Table 16. Video screen option

Option	Description
Primary Display	<p>This option determines which video controller is the primary display when multiple controllers are available in the system. The options include:</p> <ul style="list-style-type: none"> • Auto—enabled by default • Intel HD Graphics

Security screen options

Table 17. Security screen options

Option	Description
Admin Password	<p>This option enables you to set, change, or delete the administrator password.</p> <p>NOTE:</p> <ul style="list-style-type: none"> • You must set the administrator password before you set the system or hard drive password. Also, deleting the administrator password automatically deletes the system password and the hard drive password. • Successful password changes take effect immediately. <p>By default, the administrator password is not set.</p>
System Password	<p>This option enables you to set, change, or delete the system password.</p> <p>NOTE: Successful password changes take effect immediately.</p> <p>By default, the administrator password is not set.</p>
Strong Password	<p>This option enables you to enforce the option to always set strong passwords.</p> <p>By default, the Enable Strong Password option is not selected.</p> <p>NOTE: If Strong Password is enabled, the administrator and system passwords must contain at least one uppercase character and one lowercase character. The password must be at least eight characters long.</p>

Table 17. Security screen options (continued)

Option	Description
Password Configuration	<p>This option enables you to specify the minimum and maximum password lengths of the administrator and system passwords.</p> <ul style="list-style-type: none"> • min-4—By default, the minimum value is set to 4. You can increase the value. • max-32—By default, the maximum value is set to 32. You can decrease the value.
Password Bypass	<p>This option enables you to enable and disable the permission to bypass the system and the internal hard drive password, when they are set. The options are:</p> <ul style="list-style-type: none"> • Disabled—enabled by default • Reboot Bypass
Password Change	<p>This option enables you to enable the disable permission to the system and hard drive passwords when the administrator password is set.</p> <p>By default, the Allow Non-Admin Password Changes option is selected.</p>
UEFI Capsule Firmware Updates	<p>This option enables you to enable or disable UEFI Capsule Firmware. This option controls whether this system enables BIOS update through UEFI capsule update packages. This option is enabled by default.</p>
TPM 2.0 Security	<p>This option enables you to enable the Trusted Platform Module Technology feature. The options include:</p> <ul style="list-style-type: none"> • TPM On—enabled by default • Clear • PPI Bypass for Enable Commands • Attestation Enable—enabled by default • PPI Bypass for Disable Commands • Key Storage Enable—enabled by default • PPI Bypass for Clear Command • SHA-256—enabled by default • Disabled • Enabled—selected by default
Chassis Intrusion	<p>This option enables you to controls the chassis intrusion feature. The options include:</p> <ul style="list-style-type: none"> • Clear Intrusion Warning • Disabled—enabled by default • Enabled • On-Silent
Admin Setup Lockout	<p>This option enables you to prevent users from entering Setup when an administrator password is set.</p>
SMM Security Mitigation	<p>This option enables you to enable and disable additional UEFI SMM security mitigation protections.</p>

Secure Boot screen options

Table 18. Secure Boot screen options

Options	Description
Secure Boot Enable	This option enables or disables the secure boot feature. By default, the Secure Boot Enable option is not set.
Secure Boot Mode	This option enables you to change the secure boot operation mode, modifies the behavior of secure boot to allow evaluation or enforcement of the UEFI driver signatures. The options include: <ul style="list-style-type: none"> · Deployed Mode · Audit Mode
Expert Key Management	<p>This option enables you to manipulate the security key databases only if the system is in Custom Mode. The Enable Custom Mode option is disabled by default. The options include:</p> <ul style="list-style-type: none"> · PK · KEK · db · dbx <p>If you enable the Custom Mode, the relevant options for PK, KEK, db, and dbx is displayed. The options are:</p> <ul style="list-style-type: none"> · Save to File—Saves the key to a user-selected file · Replace from File—Replaces the current key with a key from a user-selected file · Append from File—Adds a key to the current database from a user-selected file · Delete—Deletes the selected key · Reset All Keys—To reset the default setting · Delete All Keys—Deletes all the keys <p>NOTE: If you disable the Custom Mode, all the changes are erased and the keys are restored to the default settings.</p>

Performance screen options

Table 19. Performance options

Option	Description
Multi Core Support	This option specifies whether one or more cores are enabled on the processor. The options include: <ul style="list-style-type: none"> · All—enabled by default · 1 · 2 · 3
Intel SpeedStep	<p>This option enables you to enables or disables the Intel SpeedStep feature. The option is:</p> <p>Enable Intel SpeedStep</p> <p>This option is enabled by default.</p>
C-States Control	This option enables you to enables or disables the additional processor sleep states.

Table 19. Performance options (continued)

Option	Description
	This option is disabled by default.
Intel TurboBoost	This option enables you to enable or disable the Intel TurboBoost mode of the processor. The option is: Enable Intel TurboBoost—This option is enabled by default.

Power management screen options

Table 20. Power management options

Option	Description
AC Recovery	This option enables you to control the system's behavior when AC power is restored after a AC power loss. <ul style="list-style-type: none"> • Power Off—enabled by default • Power On • Last Power State
Auto On Time	This option enables you to set the time at which the computer must turn on automatically. The options include: <ul style="list-style-type: none"> • Disabled—enabled by default • Every Day • Weekdays • Select Days
Deep Sleep Control	This option enables you to determine on how aggressive the system is at conserving power while shutdown—S5 or in Hibernate (S4) mode. The options include: <ul style="list-style-type: none"> • Disabled—This option enabled by default • Enabled in S5 only • Enabled in S4 and S5
Fan Control Override	This option enables you to determine the speed of the system fan. By default, the Fan Control Override option is disabled.
USB Wake Support	This option enables USB devices to wake the system from standby. <p>NOTE: This feature is only functional when the AC power adapter is connected. If the AC power adapter is removed during standby, the system setup removes power from all the USB ports to conserve battery power.</p> The Enable USB Wake Support option is enabled by default.
Wake on LAN	This option enables or disables the feature that powers on the computer from the Off state when triggered by a LAN signal. The options include: <ul style="list-style-type: none"> • Disabled • LAN Only—This option is enabled by default. • LAN with PXE Boot
Wake on 2nd NIC (RJ-45/SFP)	This option enables the computer to power up from the OFF state when triggered by special LAN signals. The options include: <ul style="list-style-type: none"> • Disabled—This option is enabled by default. • LAN Only

Table 20. Power management options (continued)

Option	Description
	<ul style="list-style-type: none"> LAN with PXE Boot
Block Sleep	<p>The Block Sleep option blocks you from entering to sleep mode in the operating system environment.</p> <p>Block Sleep—This option is disabled by default.</p>

POST behavior screen options

Table 21. POST behavior options

Option	Description
Adapter Warnings	<p>This option enables or disables the system setup (BIOS) warning messages when you use certain power adapters.</p> <p>By default, the Enable Adapter Warnings option is enabled.</p>
Keypad Error	<p>This option enables you to specify whether keyboard related errors are reported when the system boots. By default, the Enable Keyboard Error Detection option is enabled</p>
Numlock LED	<p>This option enables and disables the Numlock LED when the system boots.</p> <p>By default, this option is enabled.</p>
Fastboot	<p>This option enables you to speed up the boot process by bypassing some of the compatibility steps. The options include:</p> <ul style="list-style-type: none"> Minimal Thorough—This option is enabled by default. Auto
Extended BIOS POST Time	<p>This option enables you to create an extra preboot delay. The options include:</p> <ul style="list-style-type: none"> 0 seconds—This option is enabled by default. 5 seconds 10 seconds
Full Screen Logo	<p>This option enables or disables the full screen logo. By default, the Enable Full Screen Logo option is not enabled.</p>

Wireless screen option

Table 22. Wireless option

Option	Description
Wireless Device Enable	<p>This options enables or disables the internal wireless devices. The options include:</p> <ul style="list-style-type: none"> WLAN/WiGig — enabled by default Bluetooth—enabled by default


Virtualization support screen options

Table 23. Virtualization options

Option	Description
Virtualization	This option enables or disables the Intel Virtualization Technology. Enable Intel Virtualization Technology (default).
VT for Direct I/O	This option specifies whether a virtual machine monitor can utilize the additional hardware capabilities provided by Intel Virtualization Technology for Direct I/O. This option is not enabled by default.

Maintenance screen options

Table 24. Maintenance options

Option	Description
Service Tag	Displays the Service Tag of your computer.
Asset Tag	This option enables you to create a system asset tag if an asset tag is not already set. This option is not set by default.
SERR Messages	This option enables you to control the SERR message mechanism. The Enable SERR Message option is enabled by default.
BIOS Downgrade	This controls flashing of the system firmware to previous revisions. The option Allow BIOS downgrade is enabled by default.
Data Wipe	This field enables you to erase the data securely from all internal storage devices. Option Wipe on Next boot is not enabled by default. The following is the list of devices affected: <ul style="list-style-type: none"> Internal SATA HDD/SSD Internal M.2 SATA SDD Internal M.2 PCIe SSD Internal eMMC <p> CAUTION: All the information will be lost if you enable this option.</p>
BIOS Recovery	This option enables you to recover certain corrupted BIOS conditions from a recover file on the user's primary hard drive or an external USB key. <ul style="list-style-type: none"> BIOS Recovery from Hard Drive—enabled by default BIOS Auto-Recovery—disabled by default
First Power On Date	This option enables you to set the ownership date. The Set Ownership Date option is not set by default.

System Logs screen option

Table 25. System Logs screen option

Option	Description
BIOS Events	This option enables you to delete all the logs.

Troubleshooting your system

You can troubleshoot your system using indicators like diagnostic lights, and error messages during the operation of the device.

Topics:

- [Power state and LED status](#)
- [Power behavior](#)
- [Power LED error code behavior](#)

Power state and LED status

Table 26. Power states and LED behavior

Indicator	Symptoms	Description
Power LED	Solid white	Thin client is in working—S0 state.
	Breathing white	Thin client is in sleep—S3 state.
	Off	Thin client is in off state.
	Solid amber	Thin client booting is in progress.
	Blinking amber	Bad power supply.

 **NOTE:** Press and hold the power button for at least 4 seconds to shut down the thin client forcibly.

Power behavior

Table 27. Power behavior

AC adapter	System behavior	POST error message
AC adapter power is greater than or equal to the system power requirement at full CPU speed.	System boots normally and allows CPU to run at full speed.	None
AC adapter Power is less than the system power requirements at full CPU speed.	Lower the maximum CPU speed to a value that does not exceed the power available by the AC adapter.	Alert—xxxxxxW AC power adapter has been detected, which is less than the recommended xxxxxxW AC adapter originally shipped. The system adjusts the performance to match the power available. Connect a Dell xxxxxxW AC adapter or greater for best system performance.
AC adapter is not genuine Dell.	Limit the CPU speed to the lowest possible value.	Alert—xxxxxxW AC power adapter has been detected, which is less than the recommended xxxxxxW AC adapter originally shipped. The system adjusts the performance to match the power available. Connect a Dell xxxxxxW AC adapter or greater for best system performance.
AC adapter power is less than power state of CPU.	No boot or error message, but the system shuts down.	If the system is able to boot: Alert—xxxxxxW AC power adapter has been detected, which is less than the recommended xxxxxxW AC adapter

Table 27. Power behavior (continued)

AC adapter	System behavior	POST error message
		originally shipped. The system is unable to boot. Please connect a Dell xxxxxxW AC adapter or greater for best system performance. Press any key to shut down.

Power LED error code behavior

Table 28. Power LED error code behavior

LED# of flashes	Fault description	Fault	Action	Comm
2,1	CPU	CPU Failure	Type A	
2,2	Motherboard: BIOS ROM failure	Motherboard, covers BIOS corruption or ROM error	NA	Not ap suppor
2,3	Memory	No Memory/RAM detected	NA	Not su Mothe funcio
2,4	Memory	Memory/RAM failure	Type A	Suppor Mothe the mo board t
2,5	Memory	Invalid memory is installed	NA	Memor
2,6	Motherboard: Chipset	Motherboard / Chipset error	NA	This co
2,7	LCD	LCD failure	NA	This co
3,1	RTC Power failure	CMOS battery failure	Type B	
3,2	PCI / Video	PCI or Video card/ Chip failure	NA	Not ap suppor
3,3	BIOS Recovery 1	Recovery Image not found	Type A	
3,4	BIOS Recovery 2	Recovery Image found but invalid	Type A	
4,1	CPU Config or CPU Failure		NA	This co
4,2	Generic POST Video Error—Old LED pattern 1110		NA	Not ap suppor

Example: **LED# of flashes: 2,1** indicates that LED blinks two times, pauses, and then blinks once.

Troubleshooting action

- Type A
 - Log the fault event.
 - Emit the LED error code pattern.
 - Repeat the LED error code pattern in a dead-loop.

- Type B

- Log the fault event, if possible.

- Emit the LED error code pattern.

- Repeat the LED error code 3 more times.

- Leave the LED light up in amber color.

- Continue with POST.