

Dell Wyse 5050 All-In-One PCoIP Zero Client

User's 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 5050 AIO PCoIP zero client

Wyse 5050 PCoIP zero client has the security and performance of the Wyse 5030 PCoIP zero client but in an All-in-One form factor. Wyse 5050 AIO provides a best-in-class virtual experience with superior manageability – at a better value than purchasing a zero client and high resolution monitor separately.



Hardware installation

Dell Wyse 5050 AIO PCoIP zero client hardware installation

For more information about hardware installation, see the Dell Wyse 5050 AIO PCoIP zero client Quick Start Guide at support.dell.com/manuals



Initial environment setup

Dell Wyse 5050 AIO zero client uses PC-over- IP (PCoIP) protocol environment. The zero client connects to a host server which is PCoIP capable.

Before setting up and using the zero client, install PCoIP. This guide helps you to set up the zero client, and establish a remote connection to your host server using PCoIP technology.

NOTE: PCoIP technology is designed to deliver a user desktop from a centralized host server across standard IP networks. The PCoIP technology supports full DisplayPort or DVI-D quad monitor video, complete USB 2.0 compatibility, and full-duplex high-definition audio.



Setting up the zero client

To set up the zero client, do the following:

- 1 You must ensure the All-in-One zero client is turned off and disconnected from the AC power.
- 2 Connect the keyboard, mouse, and Ethernet cable.
The remaining connections of the peripheral devices are connected to other ports.
- 3 Connect the power cable to the zero client power input port before connecting to a 100-240 V AC, 50 to 60 Hz electrical outlet.
- 4 Press the **Power Button**. The power button turns green; wait for the monitor to display the On Screen Display (OSD).

Zero client LED indicators include:

- **Off:** AC power is off.
- **Amber:** AC power is on, and zero client power is off.
- **Green:** Zero client power is on.
- **Blinking green:** Host server is in low-power state.

 **NOTE:** If the monitor does not show the OSD, check the connections and make sure the All-in-One zero client is turned on.

Establishing a PColP connection

To establish a PColP connection, do the following:

- 1 Turn on the zero client and wait until the **Connect command** button on the zero client user screen is active.
- 2 Click **Connect**.

NOTE: If the **Connect command** button on the zero client user screen is inactive or if the zero client cannot discover host servers on the network, check the network connection and make sure the Ethernet switch or router is turned on.

The following message is displayed:

Discovering hosts, please wait ...

After the process of host discovery is complete, a list of available hosts on the network is displayed.

- 3 Select the preferred host, and click **OK**.



Video resolution

How to set custom resolution for PColP zero clients

PColP zero clients enables you to set a custom resolution on the client, which is saved even when the thin client is turned off. This lets you set a resolution that is different from the attached display's native resolution. The following are the steps to set the display resolution:

- 1 Connect to the **On-Screen Display (OSD)**.
- 2 Select **Options**, and then select **User Settings**.
- 3 Click **Display Topology**, and then enable display configuration.
- 4 Select the display resolution from the list of supported resolution values.

NOTE:

- Zero clients with firmware 3.0 to 3.1.x inherit the native resolution of the attached monitor.
- In the View environments, this capability requires a connection to a VMware View 4.5 or newer virtual desktop. Also, make sure the VMware View has enough video RAM set to support high resolutions.

Display connectors with PColP enabled device

The following information describes various display connectors, ports, and how they are used with a focus on achieving resolution of 2560x1600:

Depending on the PColP device, you can have multiple display connectors that have different uses, such as:

- 1 **DVI-A—analog video only**—This DVI-A is used for analog displays using a **DVI-VGA** adapter cable.
- 2 **DVI-I—integrated digital and analog video**—This DVI-I is used for digital displays with DVI cables or analog displays with a DVI-VGA adapter cable.
- 3 **DVI-D—digital video only**—This can be used for digital displays with DVI cables.
- 4 **Display Port (DP)**—This DVI-D can be used for DisplayPort displays with a DisplayPort cable or DVI displays if a DP-DVI adapter cable is used.
Individual Display Port links support dual-link data rates when operating in Display Port mode supporting resolutions of 2560x1600. They can also provide single-link data rates when operating in **DisplayPort++/DVI** mode.
- 5 **Mini DisplayPort (mDP)**—This Mini DisplayPort can be used for the Mini Display Port displays with a mDP cable, or a mDP-DP cable or DVI displays if a mDP-DVI adapter cable is used.
Mini DisplayPort links supports dual-link data rates and 2560x1600 resolutions.
- 6 **Single-link DVI—SL-DVI**—The DVI specification allows a maximum pixel clock of 165 MHz to be used on a single-link DVI video signal. The highest 60Hz-refresh VESA resolution supported by single-link connections is 1920x1200.
- 7 **Dual-link DVI—DL-DVI**—Dual-link DVI doubles the number of data pairs, which allows resolutions requiring an effective pixel clock of up to 330 Hz to be supported. The highest 60 Hz refresh VESA resolution supported by dual-link DVI connections is 2560x1600.

 **NOTE:** These dual-link connectors can support either single-link data rates or dual-link data rates.

**NOTE:**

- PCoIP zero clients only supply single-link data rates through each DVI connector.
- Dual-link connectors are provided to allow all the digital DVI cable types.
- Single-link DVI cables can be plugged into dual-link DVI connectors and passes single link data rates, if the analog pin compatibility is maintained.
- Dual-link DVI cables require dual-link DVI connectors and can not be plugged into single-link DVI connectors. Analog pin compatibility is also required.
- To achieve 2560x1600 @ 60 Hz resolutions on a dual-link DVI capable monitor through a PCoIP zero client, you must use an adapter cable to combine two single-link DVI data outputs into a single dual-link DVI connection.

Monitor resolutions and refresh rates supported in PCoIP zero clients and host cards

In general, PCoIP zero clients and the Remote Workstation cards should work with standard display resolutions supported by **Video Electronics Standards Association (VESA)**.

The following are the list of tested monitor resolutions supported —display timing, all at 60 Hz display refresh rate:

1 Single-link rate—

- 640 x 480
- 800 x 600
- 848 x 480
- 1024 x 768
- 1280 x 720
- 1280 x 768
- 1280 x 800
- 1280 x 960
- 1280 x 1024
- 1360 x 768
- 1366 x 768
- 1400 x 1050
- 1440 x 900
- 1600 x 900
- 1600 x 1200
- 1680 x 1050
- 1920 x 1080
- 1920 x 1200

2 Dual-link rate—

- 1792 x 1344
- 1856 x 1392
- 1856 x 1392



Safety guidelines

Improper connection, or mounting of the product could result in component failure or undesired interference. Follow the below guidelines before setting up and operating your device.

- **Setup:**
 - Do not connect to AC power until all other connections—including the power adapter are made. Connecting or disconnecting components, or equipment on the back panel when the device is receiving AC power can cause power surges, and damage the device.
 - Do not force a connector into its socket. If any undue resistance is encountered, ensure that the connector is correctly oriented to the receptacle.
- **Venting and care:**
 - Mount the device only as shown or in accordance with the instructions provided with Dell approved mounting accessory kits. Improper orientation could restrict the airflow of heat from the device and damage it.
 - Allow sufficient space around the device for ventilation, do not place the device in any enclosure that restricts airflow around the device, and do not place any objects on the device or block the vent outlets. For environmental operating specifications, see [System specifications](#).
- **Power sources:**
 - When turning off the device, make sure to perform a complete shutdown—through the power button. Do not disconnect the AC power cord, DC power cord, or shut off power at a circuit breaker—including power strips, to turn off the device.
 - Surge protectors for electrical devices are recommended in areas of lightning. However, when lightning is occurring, your equipment should be properly shut down and unplugged from AC power until the storm has passed.

System specifications

Table 1. Specifications

Features	Wyse 5050 AIO PCoIP zero client
Processor	Teradici TERA2321 PCoIP Core logic speed—600 MHz
Memory	DRAM controller - Memory Banks—One, 32-bit - DRAM technology—DDR3 SDRAM, 1.5 V - Configuration—Single, solder down, cannot be installed by an user. - Capacity—512 MB - DRAM data path—32-bit DDR3L unbuffered 1066 MT/s
Power	Internal power supply, the Worldwide autosensing 100–240 VAC, 50/60 Hz power supply, the multifunction power button, and LED
Power consumption	Less than 25 watts
Security	Built-in Kensington security slot—cable sold separately
Certifications (based on US ratings)	VMware Ready, and PCoIP Connected
I/O peripheral support	One DisplayPort 1.1, one DVI-I port, one VGA—PC mode, and six external USB 2.0 ports — four side, two back
Networking	10/100/1000 Base-T Gigabit Ethernet
Display	Panel display—1920 x 1080 x 124 @ 60 Hz DVI digital—Up to 1920 x 1080 x 24 @ 60 Hz VGA analog—Up to 1920 x 1080 x 24 @ 60 Hz Contrast ratio— > 2000:1 View Angle—160° / 160° (CR≥10)
Flash	SPI flash ROM only
Audio	Input—Audio 1/8-inch mini jack, stereo microphone/line in Output—1/8-inch mini jack, full 16-bit stereo, 48 KHz sample rate
Dimensions (Height x Width x Depth)	339.6 mm x 556.77 mm x 116 mm (13.37 x 21.92 x 59.182 in) Weight 4.3 kg without stand, 6.5 kg with stand
Mountings	Base detachable, Tilt (Yes / -5° (forward) ~15° (backward)), Swivel (90°), Height (120 mm), pivot



Features	Wyse 5050 AIO PCoIP zero client
Temperature range	Horizontal position 10° to 40° c (50° to 104° F) Vertical position, power button up 10° to 40° C (50° to 104° F) Storage—10° to 60° c (14° to 140° F)
Humidity	Condensing—20% to 80% Non-condensing—10% to 95%
Keyboard and mouse	Enhanced USB keyboard with Windows Keys (104 keys) USB mouse (availability varies by region)
Warranty	Three year limited hardware warranty
Support and deployment	Complete services portfolio including deployment services, ProSupport, and accidental damage service.