Wyse ThinOS thin clients

Secure by design: Virus and malware immune firmware base with an un-published API and zero attack surface*

* See appendix for notes and guidance.
Introducing Wyse ThinOS thin client desktops

Secure simplicity on your desktop
A key component of Dell desktop virtualization product offerings and one of the most secure operating systems in the world for cloud and virtual computing environments, ThinOS is certified with Citrix, Microsoft®, VMware, Dell vWorkspace, and other ecosystem partners. Unlike Windows® and Linux, ThinOS was created just for virtual desktops with patented technology from Dell, the thin client leader with over 220 patents in this area. ThinOS is:

• **Secure by design:** Virus and malware immune* with an un-published API and zero attack surface
• **Secure by function:** Supports a robust 802.1x wired and wireless authentication spectrum of security protocols: from all EAP connection types to robust LAN based authentication including EAP-TLS
• **Fast:** Boots in under 10 seconds to secure desktops based on a variety of authentication methods, including single sign-on and 2-factor authentication.
• **Easy to manage:** Covers the everyday basics so you don’t have to. IT can get out of the desktop hardware maintenance business
• **One of the best HDX and RDP experiences in a non-Windows client:** RDP 8.0 support and a custom Citrix 3.x receiver from Dell developed in collaboration with Citrix enable a rich user experience based on the latest HDX feature set, and outstanding ICA and RDP performance.

Wyse ThinOS thin clients
ThinOS is available across a wide range of hardware form factors to suit your budget, application performance, and environmental needs—from highly affordable to high performance. The lineup includes the Wyse thin client desktop C10LE, the Wyse thin client desktop 3010-T10, the Wyse thin client desktop 3012-T10D, the Wyse thin client desktop 5012-D10D and the Wyse 5000 series all-in-one thin client.

Additional software
Wyse software options can further enhance the user experience or simplify IT management on ThinOS.

* See appendix for notes and guidance.
Quick compare Wyse ThinOS hardware platforms

All Wyse ThinOS thin clients are:

- Ultra-secure and extremely reliable with no moving parts
- Great to use and easy to manage, requiring no hardware maintenance whatsoever
- Ready to connect to Citrix, Microsoft®, VMware, and Dell vWorkspace right out of the box
- Ready to support wireless and dual displays

Wyse 3010-T10

The new standard for affordable thin clients
Great for common tasks plus multimedia acceleration and monitor rotation for an improved user experience with video

Wyse 3012-T10D

Dual-core power, compact design
Dual-core processor raises the compact thin client performance bar; great for knowledge workers and multimedia

Wyse 5012-D10D

Top performance for power users
Our flagship ThinOS platform for power users and knowledge workers: ideal for unified communications, HD multimedia, 3D graphics, and content creation; dual digital displays

Wyse 5000 series all-in-one thin client
Wyse 5000 series all-in-one thin client

a stylish integrated thin client and 21.5” display. It is the most secure all-in-one on the planet and delivers an excellent virtual desktop experience, with extreme ease of use & management
Wyse thin client desktop 3010-T10 Features

For task workers who need video

The 3010-T10 handles everyday tasks with ease and also provides multimedia acceleration for task workers who need video. Users will enjoy integrated graphics processing and additional WMV & H264 video decoding capabilities from the Marvell ARMADA™ PXA 510 v7 1.0 GHz System-on-Chip (SoC). In addition, the 3010-T10 is one of the only affordable thin clients to support dual monitors with monitor rotation, enabling increased productivity by providing an extensive view of task work.

Designing smooth playback of high bit-rate HD video and graphics in such a small box hasn’t been at the expense of energy consumption and heat emissions either. Using just 7 watts of electricity earns this device an Energy Star V5.0 rating. In addition, the 3010-T10’s small size enables discrete mounting options: under desks, to walls, and behind monitors, creating cool workspaces in every respect.
Wyse thin client desktop 3012-T10D Features

For knowledge workers and HD multimedia

The 3012-T10D with dual-core processing power is designed for knowledge workers with a variety of application needs, including HD multimedia. Users will benefit from Citrix HDX 3D and Microsoft RemoteFX graphics quality and additional WMV & H264 video decoding capabilities from the Marvell ARMADA™ dual-core PXA2128 1.2 GHz System-on-Chip (SoC). In addition, the 3012-T10D supports dual digital displays with monitor rotation and 802.11 a/b/g/n dual band, dual antenna WiFi.

All of this performance comes in an extremely compact and efficient offering. The 3012-T10D uses just 7 watts of electricity earning this device an Energy Star V5.0 rating. In addition, the 3012-T10D’s small size enables discrete mounting options: under desks, to walls, and behind monitors, creating cool workspaces in every respect.
Ultra-high performance in a compact package

Power users and knowledge workers will love the exceptionally fast speed and power from the new dual-core driven 5012-D10D. With a 1.4 GHz AMD G series APU with integrated graphics engine, the 5012-D10D handles everything from demanding multimedia applications to business content creation and consumption with ease.

The 5012-D10D even supports power users’ most demanding workloads: high quality audio and video, unified communications, CAD/CAM, 3D simulation and modeling, HD Flash and multimedia, and dual digital high resolution displays with rotation.

Users will enjoy smooth roaming and super fast 802.11 a/b/g/n wireless at 2.4 and 5 GHz with dual antennas. The 5012-D10D is Citrix HDX, Microsoft® RemoteFX, and VMware® Horizon View certified. It also supports legacy peripherals via an optional USB adapter.

Averaging 9 watts, each and every 5012-D10D contributes – quietly and coolly – to lowering your organization’s carbon footprint, with reduced power usage and emissions.
Ultra Secure and high performance in a sleek stylish form factor

The Wyse 5000 all-in-one is a stylish integrated thin client and 21.5" display. It is the most secure all-in-one and delivers an excellent virtual desktop experience, with extreme ease of use & management.

Secure: Zero attack surface for complete immunity to viruses and malware. Cryptographically protect sensitive information. AES disk encryption.

Elegantly simple: Sleek industrial design, small footprint, one power cord make it appealing to both customers and users. ThinOS and integrated display form factor make it easier to deploy and manage.

Powerful: AMD G Series dual core 1.4GHz processor, along with ThinOS, deliver high speed and power to deliver rich graphics

Well-connected: Gigabit Ethernet, optional integrated dual band Wi-Fi optional SFP fiber, speakers, camera, microphone 4 USB 2.0 ports. Ready to connect to Citrix, Microsoft®, VMware (RDP and PCoIP*), and Dell vWorkspace right out of the box.

Easy-to-manage: Right sized management for different use cases, on premise with “hands off” file server, or Dell Wyse Device Manager, or cloud-based with Wyse Cloud Client Manager. Scalable administration for just a few to tens of thousands of thin client AIOs.

* Available on the 5213 all-in-one thin client model

Wyse 5000 series all-in-one thin client Features

Specifications

- Ultra Secure and high performance in a sleek stylish form factor
- Secure: Zero attack surface for complete immunity to viruses and malware. Cryptographically protect sensitive information. AES disk encryption.
- Elegantly simple: Sleek industrial design, small footprint, one power cord make it appealing to both customers and users. ThinOS and integrated display form factor make it easier to deploy and manage.
- Powerful: AMD G Series dual core 1.4GHz processor, along with ThinOS, deliver high speed and power to deliver rich graphics
- Well-connected: Gigabit Ethernet, optional integrated dual band Wi-Fi, optional SFP fiber, speakers, camera, microphone 4 USB 2.0 ports. Ready to connect to Citrix, Microsoft®, VMware (RDP and PCoIP*), and Dell vWorkspace right out of the box.
- Easy-to-manage: Right sized management for different use cases, on premise with “hands off” file server, or Dell Wyse Device Manager, or cloud-based with Wyse Cloud Client Manager. Scalable administration for just a few to tens of thousands of thin client AIOs.

* Available on the 5213 all-in-one thin client model
Wyse Virtualization Software

A great user experience for both everyday and demanding workloads

Wyse ThinOS thin clients offer an outstanding user experience out of the box. For users with demanding multimedia, performance, and remote access needs, Dell offers the following virtualization software packages.

**Wyse TCX Suite**
Boost multimedia performance on Wyse cloud clients without taxing your server resources.

Learn more here.

**Wyse Virtual Desktop Accelerator**
Improve the experience for remote users with enhanced WAN performance.

Learn more here.

ThinOS Specifications

Dell.com
**Hands-off management**

Wyse ThinOS requires zero external management software to operate, update and scale, eliminating the need for IT to visit or touch the physical devices.

**Management Software**

As the number of devices grows, Wyse offers highly scalable management software products that offer process automation, insight, and low TCO for large deployments of Wyse cloud clients.

**Wyse Device Manager**

A powerful thin and zero client management solution, Wyse Device Manager (WDM) software provides easy, secure, highly scalable, centralized cloud client management for your small organization or global enterprise. WDM provides:

- Centralized management for over 100,000 clients all in one place, regardless of where they are located
- Policy-based configuration management, real-time asset management, automated firmware updates, and health monitoring make managing cloud clients easy
- Security - WDM complements the security of ThinOS with secure, encrypted communications to every endpoint

Learn more here.

**Wyse Cloud Client Manager**

Simple, secure client infrastructure management from the cloud. Securely manage user access to corporate applications and content for a wide range of company and employee-owned devices through an intelligent, unified cloud-based console. Finally, IT can manage smartphones, tablets, and cloud clients all in one place.

In addition, cloud client manager goes beyond standard device management solutions by providing a complete view of not only devices, but also into all the IT assets accessed by these devices. Complete visibility of users, devices, and the entire IT ecosystem – combined with a world-class analytics engine – provides invaluable insight into usage models and trends, and helps to identify areas of investment to securely and effectively provide corporate services to end users.

Learn more here.

**ThinOS Specifications**
## Wyse ThinOS Specifications

### Citrix Receiver 3.x compatible
- Native Storefront authentication
- HDX Mediatream
- HDX 3D, HDX 3D Pro
- Bandwidth estimation
- Seamless Windows
- Progressive display
- Local text echo (zero latency click)
- Optimized 2D drawing
- Flash (server rendered)
- Citrix Access Gateway and Citrix Secure Gateway support

### RDP 8.0 compatible client
- Multi-stream (simultaneous UDP and TCP connections)
- RemoteFX USB redirection
- Multi Codec (GFX)
- VOR (H.264 multimedia redirection)
- Load balancing
- Multiple monitor support
- Copy/paste by files between sessions
- Web Single Sign-On (SSO) and web forms-based authentication
- RD Connection Broker
- Personal virtual desktops and virtual desktop pools

### VMware View 5.2 client
- Smartcard Authentication
- SecureID Authentication
- Multimedia Support (with TCX)
- Bi-directional Audio (with TCX)
- WAN Acceleration (with VDA)

### Dell Wyse TCX Suite
Wyse TCX Suite virtualization software works with and enhances HDX and RDP protocols featuring:
- Terminal Server/XenApp session level restriction
- Support for USB Interface level redirection
- Multimedia: giving users the power to run rich multimedia file formats
- Multi-Display: windows and dialog boxes behave the way users expect across multiple displays
- USB Virtualizer: client attached USB devices are visible to virtual desktops applications, and administrators, even on terminal servers
- Rich Sound – receive and transmit high quality audio without compromise
- Flash Acceleration: helps users to experience improved Flash performance

### Dell Wyse Virtual Desktop Accelerator
Neutralizes the effects of network latency and packet loss, making 'thin' more suitable for more remote-site, branch, or field-based users by boosting RDP and ICA performance up to 20 times on networks with latencies up to and exceeding 300ms and at least 768kbps bandwidth.

### Integrated with Dell Wyse
Fast booting, scalable administration includes simple drag and drop placement of firmware, automatic updates via file server and full integration with Wyse Device Manager and Wyse Cloud Client Manager. This provides simple, secure, unified cloud-based management of company and employee owned smartphones, tablets, and cloud clients.

### Security built in
- A non-Linux and non-Windows based, closed OS with an unpublished API, Wyse ThinOS is inherently secure from viruses and malware
- Wyse ThinOS includes robust wired and wireless 802.1x support, with secure encryption: EAP-TLS; EAP-LEAP; EAP-PEAP; EAP-MSCHAPv2; EAP-GTC; WEP; WPA Personal, WPA2 Personal, WPA2 Enterprise – DoD CAC, PIV & SOP supported
- Although there is no local file system, certifications and configuration data can be stored for high availability. Leveraging AES 128 bit disk encryption, with a random number generator, local settings will be secure

### Server OS Infrastructure support
- Citrix XenDesktop 4.0 – 7.0
- Citrix XenApp 4.5 – 6.5
- Support for other leading VDI brokers (Desktone, Leostream, etc)

### Dell Wyse TCX Suite
Wyse TCX Suite virtualization software works with and enhances HDX and RDP protocols featuring:
- Terminal Server/XenApp session level restriction
- Support for USB Interface level redirection
- Multimedia: giving users the power to run rich multimedia file formats
- Multi-Display: windows and dialog boxes behave the way users expect across multiple displays
- USB Virtualizer: client attached USB devices are visible to virtual desktops applications, and administrators, even on terminal servers
- Rich Sound – receive and transmit high quality audio without compromise
- Flash Acceleration: helps users to experience improved Flash performance

### Dell Wyse TCX Suite
Wyse TCX Suite virtualization software works with and enhances HDX and RDP protocols featuring:
- Terminal Server/XenApp session level restriction
- Support for USB Interface level redirection
- Multimedia: giving users the power to run rich multimedia file formats
- Multi-Display: windows and dialog boxes behave the way users expect across multiple displays
- USB Virtualizer: client attached USB devices are visible to virtual desktops applications, and administrators, even on terminal servers
- Rich Sound – receive and transmit high quality audio without compromise
- Flash Acceleration: helps users to experience improved Flash performance
# Wyse 3010-T10 Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>Marvell® ARMADA™ PXA 510 v7 1.0 GHz system-on-chip (SoC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>0 MB Flash / 1 GB RAM DDR3</td>
</tr>
<tr>
<td>Graphics</td>
<td>Integrated in SoC</td>
</tr>
<tr>
<td>Display</td>
<td>VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate. Single: up to 1920x1200@60Hz; color depth: 32 bpp. Dual: up to 1920x1200@60Hz; color depth: 32 bpp. Supports dual high-resolution displays. Dual displays also support monitor rotation (&quot;L shaped&quot; displays). Dual displays require optional monitor splitter cable (sold separately). Dual displays with the optional splitter cable provide 1 digital display and 1 analog display.</td>
</tr>
<tr>
<td>Networking/Comm</td>
<td>10/100/1000 Base-T Gigabit Ethernet. Optional 802.11 b/g internal wireless (single antenna).</td>
</tr>
<tr>
<td>Security compliance</td>
<td>Security protocols supported for both wireless and 802.1x network based authentication: EAP-TLS, EAP-LEAP, EAP-PEAP, EAP-MICHAELV2, EAP-GTC, WEP, WPA Personal, WPA2 Enterprise, WPA Enterprise, WPA2 Enterprise.</td>
</tr>
<tr>
<td>I/O peripheral support</td>
<td>One DVI-I port, DVI to VGA (DB-15) adapter included. Dual display support with optional DVI-I to DVI-D plus VGA-monitor splitter cable (sold separately). Four USB 2.0.</td>
</tr>
<tr>
<td>Included</td>
<td>Enhanced USB keyboard with PS/2 mouse port and Windows keys. PS/2 or USB optical mouse included (varies by region).</td>
</tr>
<tr>
<td>Factory options</td>
<td>802.11 b/g internal wireless (single antenna).</td>
</tr>
</tbody>
</table>

## Features

**Mountings**
Horizontal stand. The same stand can be used for VESA wall mounting. Optional vertical stand.

**Device security**
Built-in Kensington security slot (cable sold separately).

**Dimensions**
- Height: 1 in (25 mm)
- Width: 6.9 in (177 mm)
- Depth: 4.69 in (119 mm)
- Weight: 1 lb (450 g)

**Networking/Comm**
- 10/100/1000 Base-T Gigabit Ethernet.
- Optional 802.11 b/g internal wireless (single antenna).

**Security compliance**
- Security protocols supported for both wireless and 802.1x network based authentication: EAP-TLS, EAP-LEAP, EAP-PEAP, EAP-MICHAELV2, EAP-GTC, WEP, WPA Personal, WPA2 Enterprise, WPA Enterprise, WPA2 Enterprise.

**I/O peripheral support**
- One DVI-I port, DVI to VGA (DB-15) adapter included.
- Dual display support with optional DVI-I to DVI-D plus VGA-monitor splitter cable (sold separately).
- Four USB 2.0.

**Audio**
- Output: 1/8-inch mini jack, full 16-bit stereo, 48KHz sample rate.
- Input: 1/8-inch mini jack, 8-bit microphone.

**Included**
- Enhanced USB keyboard with PS/2 mouse port and Windows keys.
- PS/2 or USB optical mouse included (varies by region).

**Factory options**
- 802.11 b/g internal wireless (single antenna).

## Specifications

**Power**
- Worldwide auto-sensing 100-240 VAC, 50/60 Hz.
- Energy Star V5.0.
- Phase V external and EuP compliant power adapter.

**Power consumption**
- Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: under 7.2 watts.

**Temperature range**
- Horizontal position: 50° to 95° F (10° to 35° C)
- Vertical position, power button up: 50° to 104° F (10° to 40° C)
- Storage: 14° to 140° F (-10° to 60° C)

**Humidity**
- 20% to 80% condensing.
- 10% to 95% non-condensing.

**Certifications**
- Ergonomics: German EKI-ITB 2000, ISO 9241-3/-8
- Safety: cULus 60950, TÜV-GS, EN 60950
- RF Interference: FCC Class B, CE, VCCI, C-Tick
- Environmental: WEEE, RoHS Compliant.

**Warranty**
- Three-year limited hardware warranty.
- Optional WyseChoice extensions and upgrades at www.wyse.com/warranties.

* See appendix for notes and guidance.
## Processor
Marvell® ARMADA™ Dual Core PXA2128 1.2 GHz system-on-chip (SoC)

## Memory
4GB Flash / 2GB DDR3 RAM

## Graphics
Integrated in SoC, including support for Citrix HDX 3D and Microsoft RemoteFX

## Display
**Single:** up to 1920x1200@60Hz; color depth: 8, 16, 25, or 32 bpp  
**Dual:** up to 1920x1200@60Hz; color depth: 8, 16, 25, or 32 bpp  
Dual monitor supported with display rotation ("L shaped" displays)  
VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate.

## Networking/Comm
10/100/1000 Base-T Gigabit Ethernet.  
Optional 802.11 a/b/g/n internal wireless, dual radio and dual antenna @ 300 Mbps

## Security compliance
Security protocols supported for both wireless and 802.1x network based  
authentication: EAP-TLS; EAP-LEAP; EAP-PEAP; EAP-MSCHAPv2; EAP-GTC;  
WEP; WPA Personal; WPA2 Personal; WPA Enterprise; WPA2 Enterprise.

## I/O peripheral support
One DVI-I port, DVI to VGA (DB-15) adapter included.  
One DVI-D port.  
Native dual digital display support with DVI-I and DVI-D ports.  
Four USB 2.0 ports, 3 in front, 1 in back.

## Audio
Composite audio jack: 1/8-inch mini, 16-bit stereo.  
Internal mono speaker.

## Included
Enhanced USB keyboard with PS/2 mouse port and Windows keys.  
PS/2 or USB optical mouse included (varies by region).

## Factory options
802.11 a/b/g/n internal wireless (dual band, dual antenna at 300Mbps).

## Mountings
Horizontal stand. The same stand can be used for VESA wall mounting.

## Device security
Built-in Kensington security slot (cable sold separately).

## Dimensions
- **Height:** 1.38 in (35 mm)  
- **Width:** 6.94 in (176 mm)  
- **Depth:** 4.75 in (121 mm)

## Shipping weight
1.1 lbs. (0.5 kg)

## Power
Worldwide auto-sensing 100-240 VAC. 50/60 Hz.  
Energy Star V5.0.  
Phase V external and EuP compliant power adapter.

## Power consumption
Average power usage with device connected to 1 keyboard with  
1 PS/2 mouse and 1 monitor: under 7.2 watts.

## Temperature range
- **Horizontal position:** 50° to 95° F (10° to 35° C)  
- **Vertical position, power button up:** 50° to 104° F (10° to 40° C)  
- **Storage:** 14° to 140° F (-10° to 60° C)

## Humidity
- **20% to 80% condensing:**  
- **10% to 95% non-condensing:**

## Certifications
- **Ergonomics:** German EKI-ITB 2000, ISO 9241-3/-8  
- **Safety:** cULus 60950, TÜV-GS, EN 60950  
- **RF Interference:** FCC Class B, CE, VCCI, C-Tick  
- **Environmental:** WEEE, RoHS Compliant.

## Warranty
## Wyse 5012-D10D Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>AMD G-Series T48E Dual Core 1.4GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>2GB Flash / 2GB RAM DDR3-1066MHz</td>
</tr>
<tr>
<td>Graphics</td>
<td>Radeon HD 6250</td>
</tr>
</tbody>
</table>
| Display            | VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate  
                        DisplayPort: 2560x1600@32bpp  
                        DVI-I: 1920x1200@32bpp  
                        Dual display: 1920x1200@32bpp  
                        Supports dual digital high-resolution displays  
                        Dual displays also support monitor rotation ("L shaped" displays) |
| Networking/Comm    | 10/100/1000 Base-T Gigabit Ethernet  
                        Optional single and dual band 802.11 a/b/g/n integrated wireless with external dual antenna  
                        Optional SFP Module support for Fiber NIC network connectivity |
| Security compliance | Security protocols supported for both wireless, and 802.1x network based authentication: EAP-TLS, EAP-LEAP, EAP-PEAP, EAP-MSCHAPv2, EAP-GTC, WEP, WPA Personal, WPA2 Personal, WPA Enterprise, WPA2 Enterprise |
| I/O peripheral support | One DisplayPort. (Optional DisplayPort to DVI-I adapter available)  
                        One DVI-I port. DVI to VGA (DB-15) adapter included  
                        Four external USB 2.0 ports (2 front, 2 back)  
                        Serial and parallel connectivity supported through USB 2.0 adapters |
| Audio              | Composite audio jack: 1/8-inch mini, 16-bit stereo  
                        Internal mono speaker |
| Included           | Enhanced USB keyboard with Windows keys (104 keys) and PS/2 mouse port  
                        PS/2 or USB optical mouse included (varies by region). |
| Factory options    | Single and dual band 802.11 a/b/g/n integrated wireless with external dual antennas  
                        SFP Module support for Fiber NIC network connectivity |

### Mountings
- Vertical foot, included
- Optional VESA mounting bracket
- Optional Ergotron mounting bracket

### Device security
- Built-in Kensington security slot (cable sold separately)

### Dimensions
- Height: 6.7 inches (170mm)
- Width: 1.6 inches (40mm)
- Depth: 7.3 inches (185mm)
- Weight: 2.05 lbs / 0.93 kg

### Power
- Worldwide auto-sensing 100-240 VAC, 50/60 Hz 65W, 19V DC.
  - Energy Star® V.5.2 Phase V external and EuP compliant power adapter

### Power consumption
- 9 watts (average)

### Temperature range
- Operating, vertical position: 50° to 104° F (10° to 40° C)
- Storage: 14° to 140° F (-10° to 60° C)

### Humidity
- 20% to 80% condensing
- 10% to 95% non-condensing

### Safety Certifications
- Ergonomics: German EKI-ITB 2000, ISO 9241-3/-8
- Safety: cULus 60950, TÜV-GS, EN 60950
- RF Interference: FCC Class B, CE, VCCI, C-Tick
- Environmental: WEEE, RoHS Compliant, ENERGY STAR Certified

### Warranty
- Three-year limited hardware warranty.
  - Optional WyseChoice extensions and upgrades at www.wyse.com/warranties

*See appendix for notes and guidance.*
# Wyse 5000 series all-in-one thin client Specifications

<table>
<thead>
<tr>
<th>Processor/Chipset</th>
<th>AMD G-Series T48E Dual Core 1.4GHz / AMD Radeon HD 6250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>2GB Flash / 2GB DDR3</td>
</tr>
<tr>
<td>Display</td>
<td>54.61 cm (21.5 inches) / Full HD 1920 x 1080 at 60 Hz (Primary and dual monitor)</td>
</tr>
<tr>
<td>Networking/Comm</td>
<td>10/100/1000 RJ-45 Ethernet or SFP Fiber. Optional – 802.11 a/b/g/n integrated wireless Ethernet with dual-band antenna.*</td>
</tr>
<tr>
<td>I/O peripheral support</td>
<td>4 USB 2.0 ports 1 RJ45 1 SFP fiber (optional) 1 VGA (PC mode) 1 DisplayPort (dual display) Composite audio jack: 1/8-inch mini, 16-bit stereo / internal mono speaker HD web cam (integrated) Speaker bar (integrated) Microphone (integrated)</td>
</tr>
<tr>
<td>Management</td>
<td>Simple file server management Dell Wyse Device Manager Dell Wyse Cloud Client Manager</td>
</tr>
<tr>
<td>Protocols</td>
<td>Citrix ICA, HDX 3D &amp; 3D Pro, Microsoft RDP 8.0, VMware View 5.2 with PCoIP** and vWorkspace</td>
</tr>
<tr>
<td>Included</td>
<td>Dell Wyse thin client all-in-one 5212 USB keyboard (US) DJ454 USB mouse (US) 11D3V</td>
</tr>
<tr>
<td>Optional accessories (sold separately)</td>
<td>Headset Jabra UC 550 Duo Wireless Keyboard &amp; Mouse Printer C2660dn Dual UZ2215H Monitor Dell Dual Monitor Stand</td>
</tr>
<tr>
<td></td>
<td>Dell Part# A7371144 Dell Part# 332-1396*** Dell Part# 210-ABPD Dell Part# 861-BBDO Dell Part# 332-1236</td>
</tr>
<tr>
<td>Power</td>
<td>30W average power consumption External power supply auto-sensing between 110v and 240v</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Display with stand Width: 531mm (20.9 in) Depth: 181mm (7.1 in) Height: 408mm (16.0 in) Display without stand Width: 531mm (20.9 in) Depth: 45mm (1.8 in) Height: 343mm (13.5 in) Fixed Stand Width: 191mm (7.5 in) Depth: 181 mm (7.1 in) Height: 315mm (12.4 in)</td>
</tr>
<tr>
<td>Weight</td>
<td>With packaging 6.78kg (14.92lb) With stand assembly &amp; cables 5.4kg (11.88lb) Without stand assembly 3.58kg (7.88lb) Stand 1.02kg (2.24lb)</td>
</tr>
<tr>
<td>Warranty</td>
<td>Three year limited warranty. Optional one, two, and five year warranties.</td>
</tr>
</tbody>
</table>

* Available in select countries
** Available on the 5213 all-in-one thin client model
*** Keyboard may be sold separately outside US/Canada
Wyse ThinOS is virus and malware immune

It is technically impossible for a virus to attach to Wyse ThinOS or the Wyse thin client on which it resides. It consists of a networking and protocol stack and is not a general-purpose operating system. Therefore, it has zero exposed API's and no local file system or other potentially vulnerable exposures to exploit.

Product weights

Product weights stated may vary depending on configuration and manufacturing variability.

Key facts about ThinOS

- **Secure**: virus and malware immune
- **High performance**: light weight firmware base about the size of a digital photograph has minimal overhead
- **Instant-on**: from power-on to productive in **under 10 seconds**
- **Easy to manage**: automatic 'hands-off' management, on-premise with Dell Wyse Device Manager, or cloud-based with Dell Wyse Cloud Client Manager
- **Scales to over 100,000** managed devices with Wyse WDM software
Dell cloud client-computing

For sales, service and support expertise around the globe

Dell cloud client-computing
One Dell Way
Round Rock, TX 78664

Visit our website at:
www.dell.com/cloudclientcomputing

Dell Wyse Sales
1-800-438-9973

Dell cloud client-computing support portal
Dell Wyse Support Portal provides a fast and accurate way to communicate interactively with Dell Wyse Customer Support, and helps us respond to your requests more quickly.
www.support.wyse.com/selfservice.html

Dell Inc.
One Dell Way, Round Rock, TX 78664
Telephone: 1-800-456-3355
www.dell.com

Dell cloud client-computing
Any user. Any app. Any device. Build or buy a custom or proven, pre-tested solution from Dell.

With Dell cloud client-computing you're covered from the data center to the end user device. For additional Dell products and solutions that complement your Dell Wyse ThinOS-based thin clients, visit:

Dell Monitors: www.dell.com/monitors
Dell Desktop Virtualization Solutions: www.dell.com/cloudclientcomputing

About Dell
Dell Inc. (NASDAQ: DELL) listens to customers and delivers innovative technology and services that give them the power to do more. For more information, visit www.dell.com

©2014 The Dell logo and references are trademarks of Dell Inc. Other product names mentioned herein are for identification purposes only and may be trademarks and/or registered trademarks of their respective companies. All specifications are subject to change without notice. While we make every effort to ensure the accuracy of the details, specifications, models, images and benefits featured in this datasheet, we cannot be held responsible for any errors and/or omissions. If you have any queries regarding Dell Wyse products please contact your authorized regional Dell Partner. Some features require support by server operating system and protocol.
Approved final 200814.