**Wyse X class mobile thin clients**
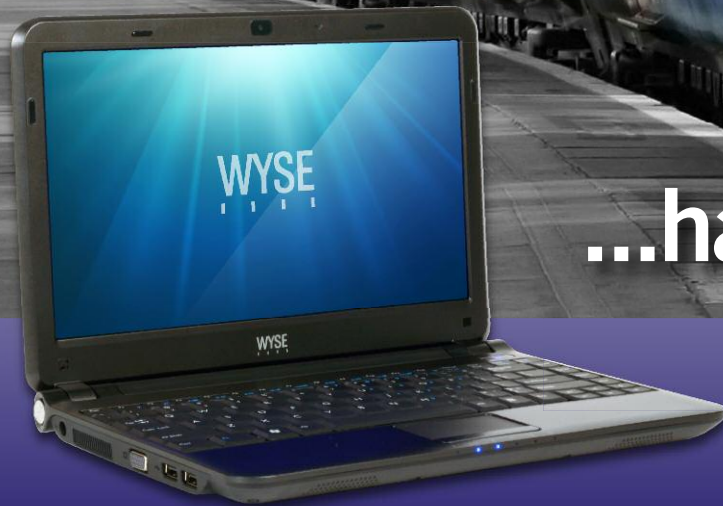Secure, accessible mobile thin computing...

WYSE

...has arrived

**Wyse X class thin clients.**

All you need to know. Here. ▶

# Introducing the Wyse X class mobile thin clients

**Now you can get all of the security you crave – with all the access you need. Wherever you choose to work.**

Choose from two equally slim-line versions; the new Wyse X90CW mobile thin client with its compact 11.6" LED backlit display, and the Wyse X50L, X90LW and X90LeW mobile thin clients with stunning 15.4" widescreen displays - ideal for presenting rich multimedia.

Featuring the power of Microsoft Windows XP Embedded & Windows Embedded Standard, and the security and flexibility of Wyse Enhanced SUSE Linux (Wyse X Class L Family only).

**Here's the full range pictured below:**

### Wyse X90CW
Small form factor, high performance mobile thin client with Windows Embedded Standard.

### Wyse X50L
15.4" screen mobile thin client with Wyse Enhanced SUSE Linux.

### Wyse X90L
15.4" screen mobile thin client with Windows XP Embedded.

### Wyse X90Le
15.4" screen mobile thin client with Windows XP Embedded. Built-in smartcard reader and BlueTooth networking.

### Wyse X90LW
15.4" screen mobile thin client with Windows Embedded Standard.

### Wyse X90LeW
15.4" screen mobile thin client with Windows Embedded Standard. Built-in Smartcard reader and BlueTooth networking.

**WYSE**

# **Features** Wyse X class thin clients

Wyse X class mobile thin clients feature all the benefits of other Wyse thin clients in the range including the absence of hard drives. Which is of particular benefit to mobile workers who regularly work with sensitive data in insecure environments because with Wyse, they can work on the move with all their data safely stored and accessed from secure virtual servers - eliminating the risk of data-loss from stolen or mislaid laptops.

**Learn more:**

**Simply click the Wyse X class feature icons below.**

**Performance**

**X class C Family Connectivity**

**X class L Family Connectivity**

**Green**

EarthSmart Computing™

**Management Software**

**Virtualization Software**

**Virtualization Software**

**Wyse Enhanced SUSE Linux**

Novell

**Microsoft Windows XP Embedded**

Microsoft Windows xp Embedded

**Microsoft Windows Embedded**

Windows Embedded Standard 2009

Visit: wyse.com ▶

Take a tour of the Wyse X class range features here ▶

◀ ▶   Start   Models   Features   Technical   Print

WYSE

The Wyse X class mobile thin clients feature high-performance energy conserving processors: Intel Atom Z520 in the Wyse X class C Family and Via C7-M ULV in the X class L Family, giving your mobile users all the processing power and flexibility they need including rich multimedia playback.

Choose between the Wyse X class C family with a crisp 11.6" widescreen display, and the Wyse X class L Family with their larger 15.4" widescreen displays. Both delivering excellent on-screen performance for graphics applications and multimedia presentations.

**No hard drives. No worries.**
Their hard drive-free design contributes to a far longer lifespan than other comparative laptops. And of course no hard drive means no data whatsoever is lost or compromised if a Wyse X class is stolen or mislaid.

Finally, Wyse X class mobile thin clients pack all these features and functionality into slim, robust designs, ideal for today's hard working and pressurized mobile workers.

**Intel Atom Z520
1.33GHz processor**

Intel's smallest and lowest power processor to date, the Intel® Atom™ processor has been specifically designed for the new wave of compact, lightweight, high performance internet devices like the Wyse X class C Family.

**VIA C7-M ULV
1.2GHz processor**

With its extreme power efficiency for full computing on the go, the VIA C7-M ULV processor has been specifically designed for next generation mobile thin clients such as the Wyse X class L Family.
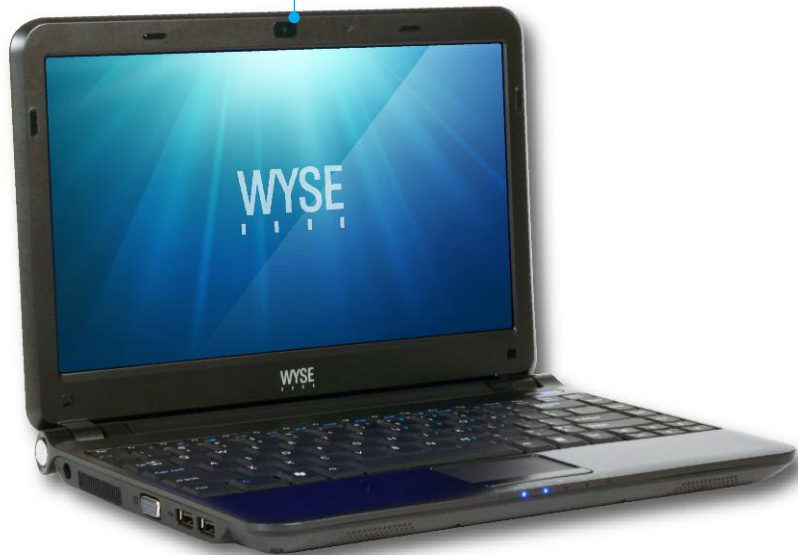
**Continue tour** ▶

# X class C Family Connectivity Wyse X90CW thin client

Built-in 1.3 Mega Pixel Camera and Microphone

## Well connected

Integrated wireless 802.11 b/g/n

One VGA-type video output

Two USB 2.0 ports

Kensington Lock Slot

Audio In: 1/8-inch mini jack,
8 bit stereo microphone

Media slot 4-in-1 (MS/MS-Pro/SD/MMC) for
additional storage

Audio Out: 1/8-inch mini jack, full 16 bit stereo

One USB 2.0 port

10/100 Base-T Ethernet port

**Continue tour** ▶

**WYSE**

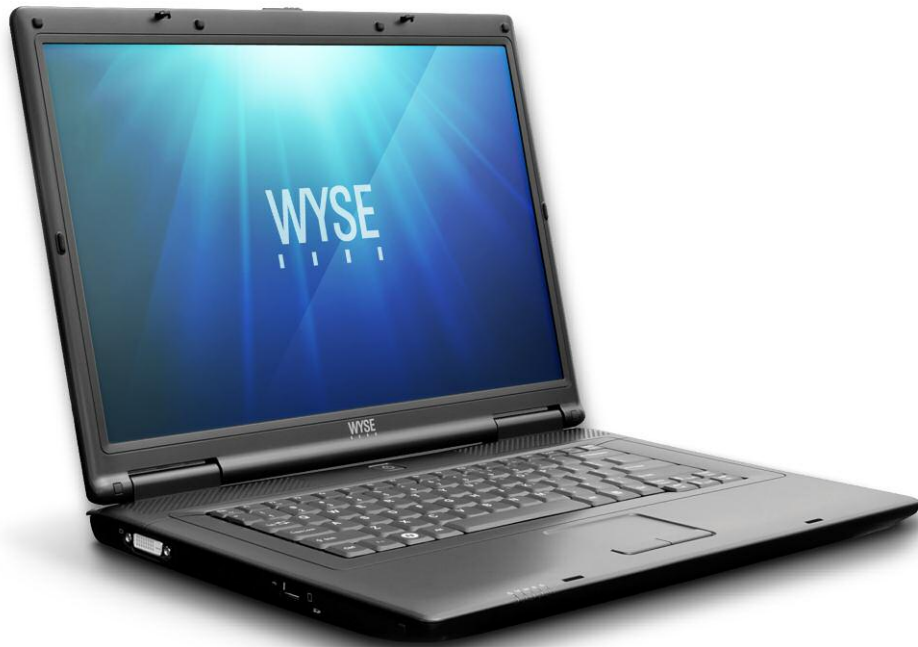# X class L Family Connectivity
## Wyse X50L, X90L, X90Le, X90LW and X90LeW mobile thin clients

## Well connected

Built-in WiFi 802.11 b/g/n

Audio Out: 1/8-inch mini jack, 16 bit stereo
Internal mono speaker

Audio In: 1/8-inch mini jack,
8 bit stereo microphone

Three External USB 2.0 ports (right)

10/100/1000 Base-T Gigabit Ethernet port

One VGA-type video output

Kensington Lock Slot

One DVI-D Port

One external
USB 2.0 port (left)

SD Card Slot

ExpressCard slot

**Continue tour** ▶

**WYSE**

# Mobile computing Without compromise

That's Wyse
EarthSmart
Computing

ENERGY STAR PARTNER

EarthSmart Computing™
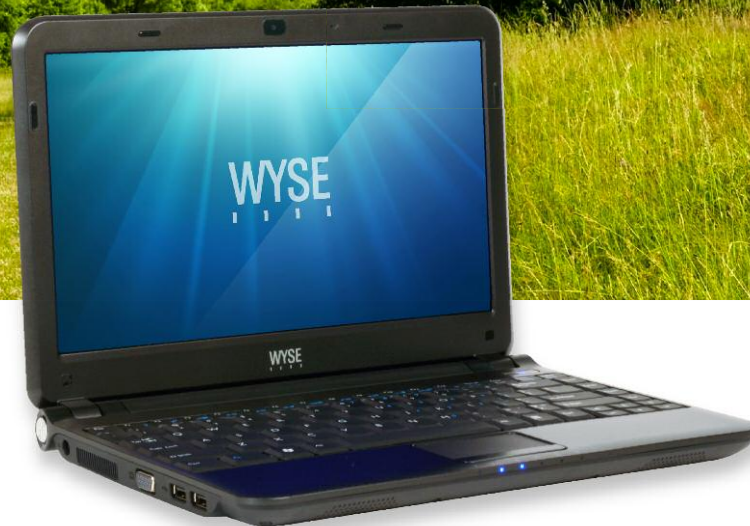
## Going Green with Wyse Thin Computing

Through our EarthSmart Computing initiative we are committed to helping organizations implement a greener computing strategy - one that delivers a more efficient and productive computing experience for your users with a positive effect on energy wastage, heat and carbon emissions.

## Green Power

All Wyse X class mobile thin clients pack a considerable punch with their green credentials. From reduced manufacturing impact and end-of-life recycling waste, to as little as 18 watts energy consumption, deploying Wyse X class mobile thin clients to your mobile and remotely based workers will enable your organization to achieve a lighter carbon footprint.

## Learn more

Download carbon calculators, fact sheets and white papers from here: **www.wyse.com/green**

**Continue tour** ▶

# Management Software Wyse Device Manager

## Thin computing remote management. Made easy.

Wyse Device Manager (WDM) provides comprehensive, enterprise-wide management for Wyse X class mobile thin clients. A licence for WDM Workgroup Edition is included with every Wyse X class model. This may be upgraded to WDM Enterprise Edition for an additional charge. **Key features include:**

| Security | • HTTPS Based Imaging / Updates<br>• Fully Encrypted Network Traffic<br>• Multi-user Admin Access (MS AD) Support |
| --- | --- |
| **No-Hassle Deployment** | • Complete Device Imaging / Patching / Updates<br>• Bandwidth Throttling for Efficiency / Reliability<br>• Software Updates and Add-ons |
| **Device Administration and Monitoring** | • Device Health Status / Reporting<br>• Remote Shadowing / Control<br>• Default Device Configuration |
| **Scalability** | • Distributed Architecture<br>• SQL / MSDE Support<br>• Multiple Remote Repository Support |
| **Complete Asset Visibility** | • Automated Discovery<br>• Detailed Hardware Asset information<br>• Installed Software Asset information |
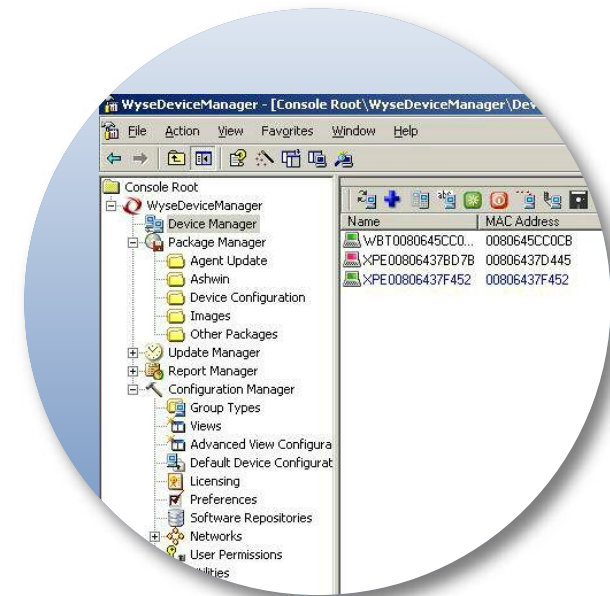


**Continue tour** ▶

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**WYSE**

# Virtualization Software Wyse TCX™ Suite with Collaborative Processing Architecture™

## Wyse TCX delivers an amazing user experience in one software suite.

Wyse TCX is our new software suite which enriches the user experience by removing the limitations previously associated with thin clients. It enhances, not replaces, key protocols like ICA/HDX and RDP adding key features to make each more valuable. With Wyse TCX users receive the best PC experience available on a thin computing platform.[1, 2]

### Wyse TCX Multi-display

Ensures application windows and dialog boxes are multi-monitor aware when using more than one monitor.

### Wyse TCX USB Virtualizer

Enables plug and play peripheral support for virtual desktop environments.
- Redirect and use local USB devices in virtual desktops.
- Deploy virtual desktops to knowledge workers with special device access needs.
- Enable a broad set of USB peripherals including webcams and headsets.
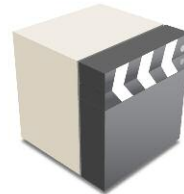
### Wyse TCX Multimedia

Streamlines the delivery of the multimedia stream to the local client for a rich user experience within a thin computing architecture.
- Accelerates Mpeg1, Mpeg2, WMV, Mpeg4 Part 2, AC3, AAC, MP3, WAV, WMA media types.
- Collaborative Processing Architecture enhances server scalability, and network utilization by off-loading multimedia rendering to the client.
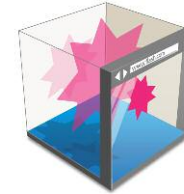
### Wyse TCX Flash Acceleration

Wyse TCX Flash Acceleration helps thin client users to experience improved Flash video performance. While the Flash player continues to run server-side, the resulting images are transcoded and redirected to the client for fast rendering. The technology allows for greater control of frame rate and compression and supports enhanced playback of youtube style flash videos in Internet Explorer.

### Wyse TCX Rich Sound

Enables bi-directional audio in virtual desktop environments, enabling solutions such as VOIP, digital dictation or voice recognition to be deployed.

**Continue tour** ▶

1 Subject to licence fee.
2 Support is dependant on host Operating System.

WTCXS / C R X / 100110

◀ ▶ | Start | **Models** | Features | Technical | Print

**WYSE**

# Virtualization Software Wyse Virtual Desktop Accelerator

## Removing the barriers of network latency

Wyse Virtual Desktop Accelerator (VDA) enables virtualized desktop and thin computing environments to be deployed to areas where network latency has, to date, presented operational barriers. Now, with Wyse VDA, more users can receive the full benefits of Wyse thin computing – with the best PC experience over virtualized desktops.

Wyse VDA is a software-only solution for Wyse thin clients and supported PCs that delivers the best user experience for the allocated network bandwidth by neutralizing the effects of network latency and packet loss. Making 'thin' suitable for more remote-site, branch, or field-based users.

Wyse VDA works with instead of replacing existing RDP and ICA protocols, accelerating them by up to 20 times on networks faced with latencies up to and beyond 300ms, and at least 768kbps bandwidth.

## At a glance features:

- Software-only acceleration of virtual desktops and applications
- Accelerates existing Citrix ICA and Microsoft RDP protocols
- Works on WANs and 'fat, long pipes'
- Accelerates connections to Citrix XenApp, Citrix XenDesktop, VMware View and Microsoft Terminal Server and Microsoft Hyper-V VDI
- Enhances Wyse TCX software suite functionality across wide-area networks
- Enables Wyse Collaborative Processing Architecture across wide-area networks
- Administrator console provides control of maximum bandwidth per connection
- Leverages built-in security of underlying protocols (128-bit encryption for RDP and ICA).

**Continue tour** ▶

WVDA / C R X / 181209

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**WYSE**

# **Operating Systems** Wyse Enhanced SUSE Linux Enterprise

**Wyse Enhanced SUSE Linux Enterprise is the industry's only enterprise-quality Linux operating system, created by combining the secure, flexible and market-leading usability of Novell's SUSE Linux Enterprise with Wyse's thin computing leadership and innovation in user experience and management.**

## Management

• Deploying Wyse Enhanced SUSE Linux Enterprise is easier than any other thin-Linux distribution period. Utilizing Wyse's proven auto-configuration and update approach - management tasks can be managed centrally without additional management software. All that's required is an FTP server and a single text-based configuration file. Wyse Device Manager is also supported for more hands-on management.

• With Wyse Enhanced SUSE Linux Enterprise, IT managers can lock down applications, disable unnecessary configuration options, and provide read-only access capabilities to minimize data loss in case of theft, corruption, or virus attacks.

## Flexible. Safe. Assured

• Wyse Enhanced SUSE Linux Enterprise provides a logical next step for Wyse ThinOS users requiring a flexible, secure and adaptable operating system with local web-browsing capability..

• Enterprise-grade security is upheld by Wyse Enhanced SUSE Linux Enterprise's read-only file system.

• Wyse Enhanced SUSE Linux Enterprise is the 'Safe Linux' indemnified jointly by Novell and Microsoft.

The only enterprise-quality Linux
...that's optimized for thin computing

**Continue tour** ▶

Generic WESL / C R X 181209

Start    Models    Features    Technical    Print

**WYSE**

**Running Microsoft Windows XP Embedded on Wyse thin clients gives IT departments the ability to support Citrix ICA, Microsoft RDP and VMware View environments and deploy fully functional desktops with better manageability and significantly lower total cost of ownership than personal computers.**

Wyse Enhanced Microsoft Windows XP Embedded-based thin clients can run 32 bit Microsoft Windows applications, either locally or from servers located on the network, with inbuilt flexibility to add and support a host of desktop peripherals with permission from the IT administrator.

## Secure write-protected thin desktops

This robust and flexible operating system is further enhanced by the Wyse file-based Write Filter that enables you to protect the file system image from accidental changes or user customization. On rebooting, the thin client simply returns to the required file system image state.

## Wyse customized image support

Wyse technicians are able to help you customize Windows XP Embedded to your exact requirements and create bespoke system images for subsequent enterprise-wide deployment, management and update through Wyse Device Manager.

**Contact your Wyse Partner for further details.**

Microsoft® **Windows** xp **Embedded**

Gen MS XPE / C R X / 181209

**Continue tour** ▶

◀ ▶ | Start | **Models** | Features | Technical | Print

**WYSE**

# Operating Systems Microsoft Windows Embedded Standard

**Running Windows Embedded Standard (WES), the latest and most advanced embedded OS from Microsoft, on Wyse thin clients gives IT departments the ability to deploy fully functional desktop clients with better manageability and significantly lower total cost of ownership than personal clients.**

Wyse WES-based thin clients can run 32 bit Microsoft Windows applications, either locally or from servers, with the inbuilt flexibility to add and support a host of desktop peripherals with permission from the IT administrator.

## Secure write-protected thin desktops

This robust and flexible operating system is further enhanced by the Wyse file-based Write Filter that enables you to protect the files, folder and/or entire volumes from accidental changes or user customization. On rebooting, the thin client simply returns to its original state thus preventing any possible damaging modification either from users or malware.

## Wyse customized image support

Wyse technicians are prepared to help you customize Windows Embedded Standard to your exact requirements in order to create custom-built images for subsequent enterprise-wide deployment, management and update through Wyse Device Manager.

**Contact your Wyse Partner for further details.**

Windows® Embedded Standard 2009
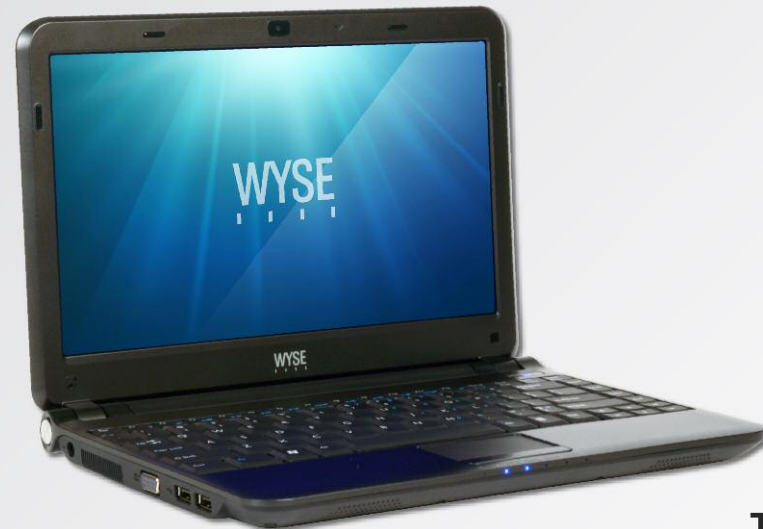
Take the Tour again ▶

Generic MWES/ C R X / 181209

◀ ▶   Start   **Models**   Features   Technical   Print

WYSE

# Contact Wyse

**Wyse Technology Inc.**
3471 North First Street, San Jose, CA 95134-1801

**Visit our website at:**
http://www.wyse.com or send an email to: sales@wyse.com

**Wyse Sales**
800 GET WYSE (800 438 9973)

**Wyse Customer Service Center:**
800 800 WYSE (800 800 9973)

**Wyse offers thin computing sales, service and support expertise around the globe.**

Click here for contact details of your regional Wyse office.

# Technical Wyse X class Specifications

## Wyse X90CW



## Wyse X50L, X90L, X90Le X90LW and X90LeW



The Wyse X class family comprises high performance mobile thin clients, featuring Wyse Enhanced SUSE Linux Enterprise, Microsoft Windows XP Embedded and Windows Embedded Standard operating systems.

## Wyse Enhanced SUSE Linux



## Microsoft Windows XP Embedded



## Microsoft Windows Embedded Standard



**Learn more.** Simply click these data sheet icons

Visit: wyse.com ▶

◀ ▶  Start  Models  Features  Technical  Print

WYSE

# Wyse X class C Family Specifications: Wyse X90CW mobile thin client

## Hardware specifications

| | |
|---|---|
| **Processors** | Intel Atom Z520 1.33GHz |
| **Memory** | Microsoft Windows Embedded Standard: 2GB Flash / 1GB RAM and up to a maximum of 2GB Flash / 2GB RAM |
| **I/O peripheral support** | One VGA port 15-pin D-sub for external monitor<br>Three USB 2.0 ports<br>Media slot 4-in-1 (MS/MS-Pro/SD/MMC) for additional storage<br>One Mic In<br>One Line Out<br>Built-in 1.3 M Pixel Camera and Microphone<br>3G capable |
| **Keyboard** | US, US international, UK, French, German |
| **Pointing Device** | Touchpad |
| **Networking** | 10/100Base-T Fast Ethernet (RJ-45)<br>Integrated wireless 802.11 b/g/n |
| **Display** | 11.6" WXGA 1366 x 768 LED backlight |
| **Audio** | Output: 1/8-inch mini jack, full 16 bit stereo<br>Input: 1/8-inch mini jack, 8 bit microphone |
| **Physical characteristics** | Width: 11.42 inches (290mm)<br>Depth: 8.23 inches (209mm))<br>Height: 1.39-1.25 inches (26.4~31.7mm) |

| | |
|---|---|
| **Weight** | 3.2 lbs. (1.45kg) with battery |
| **Device Security** | Built-in Kensington security slot (cable sold separately) |
| **Battery** | 6-cell Li-Ion battery (5200mAh)<br>Up to 8 hours autonomy |
| **Power** | Worldwide auto-sensing 100-240 VAC, 50/60 Hz.<br>Energy Star V.5.0 compliant power supply<br>Average power usage with under 15 Watts.<br>19V/65W AC Adapter |
| **Temperature Range** | 50° to 104° F (10° to 40° C) |
| **Humidity** | 20% to 80% condensing<br>10% to 95% non-condensing |
| **Safety certifications** | Safety: UL/IEC 60950-1, TUV<br>EMC: CE (EN 55022, EN 55024), FCC 15B<br>Wireless: FCC ( Part 15C), CE (EN 300 328, EN 301 489), Directive 1999/5/EC |
| | Environment: RoHS, WEEE |
| **Warranty** | One-year limited warranty, 6 months battery warranty.<br>Visit our web site for WyseChoice extensions and upgrades. |

**WYSE**

# Wyse X class L Family Specifications: Wyse X50L, X90L, X90Le, X90LW and X90LeW mobile thin clients

## Hardware specifications

| | |
|---|---|
| **Processor** | VIA C7-M ULV 1.2GHz |
| **Memory** | X50L: Wyse Enhanced SUSE Linux: 1GB Flash / 1 GB RAM<br>X90L / X90Le: Windows XP Embedded: 1GB Flash / 1 GB RAM<br>X90LW / X90LeW: Windows Embedded Standard: 2GB Flash / 1GB RAM |
| **I/O peripheral support** | 4 USB 2.0 ports (3 left/1 right)<br>1 VGA port 15-pin D-Sub for external monitor (clone mode)<br>1 DVI-D port for external monitor (clone mode)<br>SD card slot for additional storage<br>1 Express 34/54 slot (PCI-E based for additional performance) |
| **Networking** | 10/100/1000 Base-T fast Ethernet (RJ-45)<br>Integrated Wireless 802.11b/g/n |
| **Display** | 15.4'' Widescreen WXGA TFT LCD 1280x800 |
| **Audio** | Line Out for external speakers<br>Mic In for external microphone<br>High definition audio |
| **Speakers** | 2 internal stereo speakers |
| **X90Le and X90LeW includes** | Internal Smart Card reader / Citrix Password Manager<br>Bluetooth for connection to selected mobile phones |

| | |
|---|---|
| **Physical characteristics** | Width 14.12'' (360 mm)<br>Depth 10.23'' (260 mm)<br>Height 1.5'' (39.7mm)<br>Weight - 5.6lbs (2.5Kgs) with 6 cell battery |
| **Battery** | Standard 6 cell battery<br>Optional 9 cell battery available<br>Energy consumption: 18 watts |
| **Security** | Kensington Lock slot |
| **Keyboard and mouse** | Keyboard<br>Touchpad |
| **Keyboard layouts supported** | French, German, Italian, Norwegian, Spanish, Swedish, UK, US, US international |
| **Warranty** | 1 year limited warranty<br>6 month battery warranty |
| **Safety Certifications** | cUL (UL/EN 60950-1), TUV (EK1-ITB 2000)<br>EMC:CE (EN 55022, EN 55024), FCC (Part 15B) |
| | Wireless:      FCC (Part 15C), CE (EN 330 328, EN 301 489) Declaration of Notification (Directive 1999/5/EC) |
| | Environment:     RoHS, WEEE |

Generic X class L Family Spec / 100110

**WYSE**

# Wyse Enhanced SUSE Linux Enterprise Software specifications

**Firmware features**

SUSE Linux Enterprise 10 SP2 with Kernel 2.6

Compatible with SLED 10 SP2 Add-ons

Automatic Central Configuration (text-based INI files)

Automatic Upgrades (FTP, HTTP, HTTPS)

CUPS, LPR/LPD, Ghostscript and Samba print support

Firefox browser standard

Citrix ICA 10.32 client

RDESKTOP 1.6 client

XDMCP

SSH Support

Flash Player

JAVA support

Ericom PowerTerm® Terminal Emulation

Cisco, Juniper, Nortel, IPSEC VPN Support (Add-ons)

ThinPrint Support(Add-on)

**Server OS Compatibility/Support**

Citrix XenApp (formerly Citrix Presentation Server), Citrix XenDesktop

VMware View

UNIX/Linux servers

Windows Server 2000

Windows Server 2003

**Keyboard / language support**

100+ Keyboard Layouts supported locally (English, German, Spanish, French, Italian, Dutch, Chinese, Japanese, Turkish)

Language: English (Default), add-ons available for other languages (English, German, Spanish, French, Italian, Dutch, Chinese, Japanese, Turkish)

**Security**

Compressed read-only file system

Wireless 802.1x security support

Ability to lock down terminal and access to specific applications per user

**Management**

Automatic configuration and upgrading without need for Device Management software

Also, integration with Wyse Device Manager (WDM) if hands-on management and asset-tracking is desired:

- Complete image upgrade

- Wake terminal remotely (Wake-on LAN)

- Terminal configuration (IP information, name, etc.)

- Remote screen shadowing of entire desktop (VNC)

- Asset management and Reporting

**Wireless support**

WEP, WPA Personal, WPA2 Personal, WPA Enterprise, WPA2 Enterprise Authentication support

PEAP: PAP/MSCHAP/MSCHAPV2 support

TLS: PAP/MSCHAP/MSCHAPV2/GTC support

**Wyse TCX Suite**

Some component technologies of the Wyse TCX Suite are supported (not all).

Generic WESL Spec / C R X / 120110

**WYSE**

# Microsoft Windows XP Embedded SP3 Software specifications

**Firmware features**

Microsoft Windows XP Embedded SP3

Microsoft Internet Explorer 7.0 resident: HTML, JavaScript, XML, Active X
Sun JRE, Media Player, Citrix Web Interface

RDP 6.0.xx resident

Citrix ICA 11 resident

VMware View Client Resident

Terminal Services Advanced Client (TSAC)

Ericom PowerTerm® Terminal Emulation
provides 30-plus terminal emulations

**Memory**

1GB of flash memory and 1GB of RAM

**Server OS Infrastructure Support**

Citrix XenApp / Citrix Presentation Server
Citrix XenDesktop
VMware View
Microsoft Windows Terminal Server 2003 & 2008

**Set-up and Configuration**

Boot from local flash
Microsoft Windows XP user interface languages: U.S. English, French,
German, Spanish, Optional add-ons

**Keyboard language support**

U.S. English (standard), French, German, Spanish, U.K. English,
40 other languages included

**Protocol Support**

TCP/IP, DNS, DHCP, PXE

**Management**

Remote management, configuration, and upgrades
through Wyse Device Manager

Complete image upgrade

Wake terminal remotely (Wake-on LAN)

Terminal configuration (IP information, name, etc.)

Remote screen shadowing of entire desktop
(Wyse Remote Shadow)

Reporting, Asset management
SMS
Altiris

**Wireless support**

802.11 b/g/n support with internal wireless adapter

WPA-2, WEP, WPA wireless authentication

Supports wireless adapters from: Cisco, D-Link, Netgear,
US Robotics, Trendware

**Plug-ins**

Adobe Flash Player

Adobe Shockwave

**Wyse TCX Suite**

Advanced support for innovative Wyse TCX Suite virtualization software that both
works with *and enhances* ICA and RDP (instead of replacing them) featuring:

• Wyse TCX Multimedia - the power to run rich multimedia files formats utlilizing
  Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the
  necessary processing tasks between the client and the server.

• Wyse TCX Multi-Display - ensures that windows and dialogue boxes behave the
  way users expect when using more than one monitor.

• Wyse TCX USB Virtualizer - makes client attached USB devices visible to virtual
  desktops and applications, with full IT control.

• Wyse TCX Rich Sound - enables virtual desktops and applications to receive and
  transmit high quality audio without compromise.

• Wyse TCX Flash Acceleration - helps users of thin clients to experience improved
  Flash performance.

Generic WXPE Spec / C R X / 120110

**WYSE**

# Microsoft Windows Embedded Standard Software specifications

**Firmware features**

Microsoft Windows Embedded Standard (WES)

Microsoft Internet Explorer 7.0 resident: HTML, JavaScript, XML, Active X
Sun JRE, Media Player, Citrix Web Interface

RDP 6.1 resident

Citrix ICA 10 resident

Ericom PowerTerm® Terminal Emulation
provides 30-plus terminal emulations

Citrix XenDesktop

Windows Media Player 11

**Server OS Infrastructure Support**

Citrix XenApp / Citrix Presentation Server

Citrix XenDesktop

VMware View

Microsoft Windows Terminal Server 2003 & 2008

**Application Framework**

.Net 3.5

**Security**

File Based Write Filter (FBWF)
Microsoft Baseline Security Analyzer (MBSA)

**Set-up and Configuration**

Boot from local flash
Microsoft Windows WES user interface languages: U.S. English, French,
German, Spanish, Optional add-ons

**Keyboard language support**

U.S. English (standard), French, German, Spanish, U.K. English,
40 other languages included

**Protocol Support**

TCP/IP, DNS, DHCP, PXE

**Management**

Remote management, configuration, and upgrades
through Wyse Device Manager

Complete image upgrade

Wake terminal remotely (Wake-on LAN)

Terminal configuration (IP information, name, etc.)

Remote screen shadowing of entire desktop
(Wyse Remote Shadow)

Reporting, Asset management

SMS

Altiris

**Wireless support**

802.11 b/g/n support with external wireless adapter or
internal wireless adapter option

WPA-2, WEP, WPA wireless authentication

PEAP-GTC wireless authentication protocol with optional
Juniper Odyssey Client

Supports PC-Card wireless adapters from: Cisco, D-Link, Netgear,
US Robotics, Trendware

**Plug-ins**

Adobe Flash Player

Adobe Shockwave

Microsoft Silverlight

**Wyse TCX Suite**

Advanced support for innovative Wyse TCX Suite virtualization software that both
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• Wyse TCX Multimedia - the power to run rich multimedia files formats utilizing
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• Wyse TCX Rich Sound - enables virtual desktops and applications to receive and
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• Wyse TCX Flash Acceleration - helps users of thin clients to experience improved
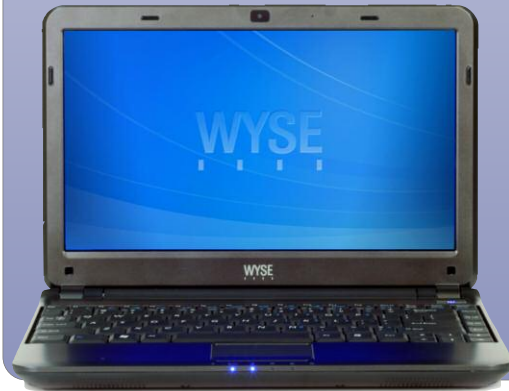Flash performance.

Start    Models    Features    Technical    Print

WYSE

# Wyse X class C Family mobile thin clients



## Thin. Compact. Secure.
## Summary Data

## Wyse X90CW mobile thin client

### Secure mobile computing. Without compromise.

With Wyse X class C Family mobile thin clients, you can take the benefits of Wyse thin computing with you wherever you go. Deploying secure, accessible and manageable laptops has never been easier - as dependant on the model - user data is either stored on central servers or locally on a HDD for offline working.

Powered by Intel Atom Z520 1.33 GHz processors these compact, high performance mobile thin clients allow more users than ever before to gain secure access to corporate networks when and wherever they need to.

Wyse X class C Family mobile thin clients are optimized for Citrix XenApp, Citrix XenDesktop, Microsoft Terminal Server and VMware View environments.

### Compact high performance mobile thin client.

Wyse X class C Family mobile thin clients are packed with features that would put some fat-laptops to shame. Busy mobile workers and traditional 'road-warriors' alike will appreciate their compact slim profile, light weight, crisp LED backlit display and long-lasting 8 hour battery.



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## Features

**Performance**

New generation Intel Atom Z520 1.33GHz processor delivering high performance with low power requirements (15 watts).

**Ultra-mobile**

Slim, compact design weighing just 3.2lb that's ideal for busy mobile workers and classic 'road-warriors' alike.

**Rich user connectivity**

Buit-in webcam, integrated wireless b/g/n, Buetooth 2.1 and support for 3G cards provide everything needed for rich user interactivity, flexible connectvity and secure mobile access.

**Green**

Draws under 15 watts of power. Small form-factor reduces the impact of manufacturing and end-of-life disposal on the environment.

**Virtualization**

Users benefit from built-in support for the Wyse TCX Suite created to deliver the best user experience over virtualized desktop environments.

**Management**

Features Wyse Device Manager (workgroup edition).

## Wyse X90CW mobile thin client

| | |
|---|---|
| **Processors** | Intel Atom Z520 1.33GHz |
| **Memory** | Microsoft Windows Embedded Standard: 2GB Flash / 1GB RAM and up to a maximum of 2GB Flash / 2GB RAM |
| **I/O peripheral support** | One VGA port 15-pin D-sub for external monitor<br>Three USB 2.0 ports<br>Media slot 4-in-1 (MS/MS-Pro/SD/MMC) for additional storage<br>One Mic In<br>One Line Out<br>Built-in 1.3 M Pixel Camera and Microphone<br>3G capable. |
| **Keyboard** | US, US international, UK, French, German |
| **Pointing Device** | Touchpad |
| **Networking** | 10/100Base-T Fast Ethernet (RJ-45)<br>Integrated wireless 802.11 b/g/n |
| **Display** | 11.6" WXGA 1366 x 768 LED backlight |
| **Audio** | Output: 1/8-inch mini jack, full 16 bit stereo<br>Input: 1/8-inch mini jack, 8 bit microphone |
| **Physical characteristics** | Width: 11.42 inches (290mm)<br>Depth: 8.23 inches (209mm))<br>Height: 1.39-1.25 inches (26.4~31.7mm) |
| **Weight** | 3.2 lbs. (1.45kg) with battery |
| **Device Security** | Built-in Kensington security slot (cable sold separately) |
| **Battery** | 6-cell Li-Ion battery (5200mAh)<br>Up to 8 hours autonomy |
| **Power** | Worldwide auto-sensing 100-240 VAC, 50/60 Hz.<br>Energy Star V.5.0 compliant power supply<br>Average power usage with under 15 Watts.<br>19V/65W AC Adapter |
| **Temperature Range** | 50° to 104° F (10° to 40° C) |
| **Humidity** | 20% to 80% condensing<br>10% to 95% non-condensing |
| **Safety certifications** | Safety: UL/IEC 60950-1, TUV<br>EMC: CE (EN 55022, EN 55024), FCC 15B)<br>Wireless: FCC ( Part 15C), CE (EN 300 328, EN 301 489), Directive 1999/5/EC<br><br>Environment: RoHS, WEEE |
| **Warranty** | One-year limited warranty, 6 months battery warranty.<br>Visit our web site for WyseChoice extensions and upgrades. |

Generic X class C Family Spec amend / 150110

**WYSE**

# Wyse X class L Family mobile thin clients

## Secure, accessible mobile thin computing.

# Summary Data

## Wyse X class mobile thin clients

### Secure computing. Wherever you need it.

Wyse X class L Family mobile thin clients feature all the benefits of other Wyse thin clients in the range - such as no hard drives - of particular benefit to the ever-increasing exposure of sensitive data to insecure environments by mobile workers. As all data stored and accessed via the server, the risk of data-loss through stolen or mislaid laptops is eliminated.

### High performance on the move.

Wyse X class mobile thin clients feature high-performance energy conserving Via C7-M ULV processors, giving your mobile users all the processing power and flexibility they need including rich multimedia playback. 15.4" widescreen displays contribute to delivering excellent performance for graphics applications and multimedia presentations.

### No fans. No hard drives. No worries.

Their fanless, hard drive-free design means no moving parts and a far longer lifespan than other comparative PC laptops. And of course no hard drive means no data whatsoever is lost or compromised if they're stolen or mislaid. Finally, Wyse X class mobile thin clients pack all these features and functionality into a slim robust design, ideal for today's hard working and pressurized mobile workers.

### Choice of operating systems.

Linux environments are catered for with Wyse Enhanced SUSE Linux Enterprise. Windows environments are supported with Microsoft Windows XP Embedded SP3 and Windows Embedded Standard.

## Features

**Performance**
Featuring 1.2Ghz VIA C7-M ULV processors specifically designed for excellent mobile computing and graphics.

**Connectivity**
The Wyse X class family features: Gigabit ethernet networking; secure wireless connectivity; support Smart Cards and VGA or DVI ports for secondary displays as well as a host of USB and audio ports.

**Green**
Just 18 watts energy consumption.

**Management**
Featuring Wyse Device Manager (work group edition) with every Wyse X class thin client.

**Virtualization**
Wyse X class mobile thin clients can be enhanced by the Wyse TCX Suite of virtualized desktop user enhancements.

**Wyse Linux**
Wyse Enhanced SUSE Linux Enterprise is the 'Safe Linux' indemnified jointly by Novell and Microsoft.

**Windows XP Embedded SP3**
Deploy fully functional desktop computers, with better manageability with the ability to create bespoke system images.

**Windows Embedded Standard**
The latest and most advancd embedded operating system from Microsoft.

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# Wyse X class L Family thin clients Hardware specifications

## Wyse X50L, X90L, X90Le, X90LW and X90LeW mobile thin clients

| | |
|---|---|
| **Processor** | VIA C7-M ULV 1.2GHz |
| **Memory** | X50L: Wyse Enhanced SUSE Linux: 1GB Flash / 1 GB RAM<br>X90L / X90Le: Windows XP Embedded: 1GB Flash / 1 GB RAM<br>X90LW / X90LeW: Windows Embedded Standard: 2GB Flash / 1GB RAM |
| **I/O peripheral support** | 4 USB 2.0 ports (3 left/1 right)<br>1 VGA port 15-pin D-Sub for external monitor (clone mode)<br>1 DVI-D port for external monitor (clone mode)<br>SD card slot for additional storage<br>1 Express 34/54 slot (PCI-E based for additional performance) |
| **Networking** | 10/100/1000 Base-T fast Ethernet (RJ-45)<br>Integrated Wireless 802.11b/g/n |
| **Display** | 15.4'' Widescreen WXGA TFT LCD 1280x800 |
| **Audio** | Line Out for external speakers<br>Mic In for external microphone<br>High definition audio |
| **Speakers** | 2 internal stereo speakers |
| **X90Le and X90LeW includes** | Internal Smart Card reader / Citrix Password Manager<br>Bluetooth for connection to selected mobile phones |
| **Physical characteristics** | Width 14.12'' (360 mm)<br>Depth 10.23'' (260 mm)<br>Height 1.5'' (39.7mm)<br>Weight - 5.6lbs (2.5Kgs) with 6 cell battery |
| **Battery** | Standard 6 cell battery<br>Optional 9 cell battery available<br>Energy consumption: 18 watts |
| **Security** | Kensington Lock slot |
| **Keyboard and mouse** | Keyboard<br>Touchpad |
| **Keyboard layouts supported** | French, German, Italian, Norwegian, Spanish, Swedish, UK,<br>US, US international |
| **Warranty** | 1 year limited warranty<br>6 month battery warranty |
| **Safety Certifications** | cUL (UL/EN 60950-1), TUV (EK1-ITB 2000)<br>EMC:CE (EN 55022, EN 55024), FCC (Part 15B) |

| | |
|---|---|
| Wireless: | FCC (Part 15C), CE (EN 330 328, EN 301 489)<br>Declaration of Notification (Directive 1999/5/EC) |
| Environment: | RoHS, WEEE |

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