Dell Client Solutions

DELL Technologies

Dell client solutions portfolio

Dell OptiPlex PC, Thin clients and AIO solutions

Corporate laptops Dell Latitude

Dell Precision Workstations

Displays and peripherals

XPS

Dell Latitude Rugged

Vostro

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OptiPlex Portfolio

All-in-One | Micro | Small Form Factor | Tower
Long life-cycle XE4 and 3000 Thin Client

30 YEARS
DELL OPTIPLEX

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13th Gen Intel® Core™ Processors (Raptor Lake or RPL)

Processors for increasingly complex workloads

	Thin-and-light notebooks	Performance notebooks	Mobile workstations		Business desktops
	U-series	P-series	H-series		S-series
intel vPRO i9			i9-13900H 14 cores	i9-13950HX 24 cores	i9-13900 24 cores
intel vPRO i7	i7-1365U 10 cores	i7-1370P 14 cores	i7-13800H 14 cores	i7-13850HX 20 cores	i7-13700 16 cores
intel vPRO i5	i5-1345U 10 cores	i5-1350P 12 cores	i5-13600H 12 cores	i5-13650HX 14 cores	i5-13600 14 cores

Internal Use - Confidential

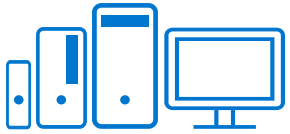
Reimagining the desktop experience

2023 OptiPlex is no longer segmented by sub-brands 3, 5, and 7

- Simplified maintenance — a single BIOS and image shared across the form factors facilitates maintenance*
- Modern purchase experience — redesigned online journey quickly matches the right solution to user needs
- Same great configurability — multiple configuration options meet customer requirements with no compromise

Discover the right OptiPlex solution in **2** easy steps:

1 Choose **Form Factor**



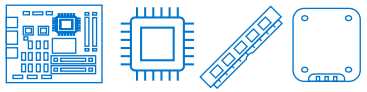
Micro
Ultracompact desktop with the most flexible mounting options from OptiPlex

Small Form Factor
Business desktops designed for performance in a slim design

Tower
Business desktops featuring flexible configurations for outstanding productivity

All-in-One
Business All-in-Ones built to perform and collaborate + ergonomic stand options

2 Customize **Features**



OptiPlex Plus
Option for higher performance of processor, memory and graphics, and more expansion solutions

OptiPlex
Standard commercial desktop features fit for majority of customers use cases

*Tower, Small Form Factor and Micro will share the same BIOS and image; All-in-One requires a separate BIOS and image from the other form factors.

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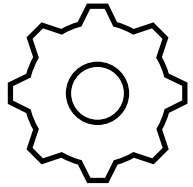
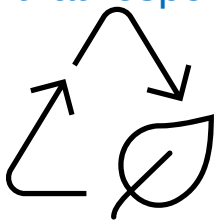
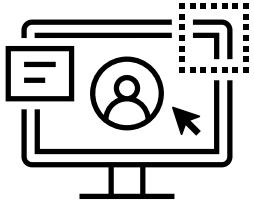
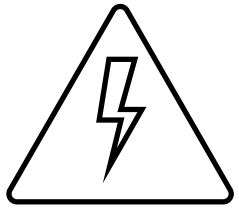
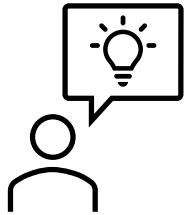
CY23 Key Changes & Investments

- Trusted, modern IT solutions
- Smart, sustainable design
- Performance and intelligence that respond to you

Simplification	Sustainability	Design	Performance	Intelligence & Security
• One model • One BIOS for desktops • One BIOS for AIO	• Made with up to 65% recycled materials • Ocean-bound plastics in fan and fan housing (Micro) • Energy Star 8.0 • EPEAT Gold • TCO09 • Multipack offers	• New Pro 2.0 ID (AIO) • 100% Low Blue Light panels (AIO) • 5MP EMZA Camera (AIO) • Optional USB Type-C Power Delivery to Micro (only for 35W processors – not valid for MFF Plus)	• Intel 13th Gen Hybrid Architecture • DDR5 U-DIMM (Tower Plus/ SFF Plus) • DDR5 SO-DIMM (Micro Plus/ AIO Plus) • SSD as boot drive	• vPro Essential and Enterprise across all configs • Modern Standby • Dell Optimizer

Generation identification

Single 4 digits generation identifier for all chassis

Distinction between CY23 and CY24+ products

Compliance with regulatory requirements and generation differentiation

Services support updates for different generations

CY22 – 7000 Towers

7	0	0	0
Series	Size	Gen	Intel

CY22 – 7400 AIO

7	4	0	0
Series	Size	Gen	Intel

CY23 – Towers:

7	0	1 (CY23) 2 (CY24)	0
One Model	Size	Gen	Intel

CY23 – AIO:

7	4	1 (CY23) 2 (CY24)	0
One Model	Size	Gen	Intel

Example: OptiPlex Micro **7010**

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OptiPlex Micro

Micro

- Intel® 13th gen architecture (Celeron – i7 35W)
- DDR4 memory up to 64GB
- Up to vPro™ Enterprise systems management
- 1x DP & 1x HDMI / Optional USB-C with PD for Single cable solution
- Energy Star and EPEAT Gold, No TCO

Micro Plus

- Intel® 13th gen architecture (i3 – i9 35W/65W)
- DDR5 memory up to 64GB
- Up to vPro™ Enterprise systems management (i5 – i9 CPUs)
- Native USB-C port / 3x DP up to 4K
- Energy Star and EPEAT Gold, TCO9

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USB-C Single Cable Connection

Single cable connection that provides **power, video and data connection** to Micro*

Limited Monitor support
See Footnotes for supported monitors

MSF22 AIO stand

Power Button Sync
Wakeup PC via monitor power button

Supports all Micro non-plus with 35W processors (condition is 90W adapter)

Requires optional USB-C module with Power Delivery be installed (NEW)

*OptiPlex Micro Plus not supported due to higher power requirement (up to 180W)

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OptiPlex Mounts

OptiPlex Micro
All-in-One Stand

OptiPlex Micro Dual
VESA Mount

Dell Single Monitor Arm

OptiPlex Micro
VESA Mount

OptiPlex Micro
Vertical Stand

OptiPlex **Wall/Under-the-Desk**
VESA Mount w/ PSU Sleeve

OptiPlex Micro All-in-one Stand
for E-series Displays

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OptiPlex Small Form Factor

Small Form Factor

- Intel® 13th gen hybrid core CPUs (Celeron – i5 65W)
- DDR4 memory up to 64GB
- Up to vPro™ Enterprise systems management
- AMD RX 6500 / 6300 Graphics
- 1x DP & 1x HDMI
- Energy Star and EPEAT Gold, No TCO

Small Form Factor Plus

- Intel® 13th gen hybrid core CPUs (i3 – i9 65W)
- DDR5 memory up to 128GB
- Up to vPro™ Enterprise systems management (i5 – i9 CPUs)
- AMD RX 6500 / 6300 Graphics
- Native USB-C port / 3x DP up to 4K
- Energy Star and EPEAT Gold, TCO9

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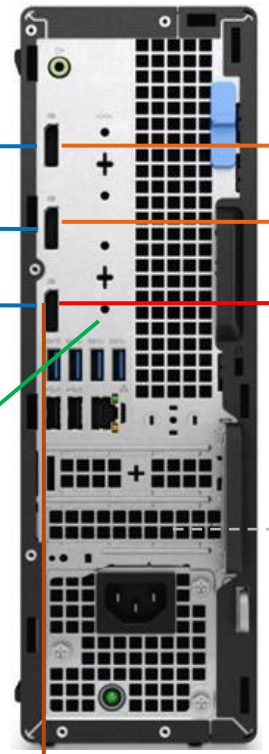
System supports up to 4 displays

Summary - DP 1.4a resolution (applies to MT/SFF/Micro)
Single display - up to 4096 x 2304 @60Hz
Dual MST – up to 2560 x 1600 @60Hz
Triple MST – up to 2560 x 1440 @60Hz
Four MST – up to 1920 x 1080 @60Hz

Take OptiPlex SFF **Plus** for example

Scenario 1 **3 displays connect to 3 native DP, 1 display to optional DP**



4096 x 2304 @60Hz
4096 x 2304 @60Hz
4096 x 2304 @60Hz
Optional DP
5120 x 3200 @60Hz

Scenario 2 **3 displays connect to 3 native DP and additional 1 display by daisy chain**

4096 x 2304 @60Hz
4096 x 2304 @60Hz
2560 x 1600 @60Hz
MST/Daisy Chain
2560 x 1600 @60Hz

dGPU offers additional video ports

1920 x 1080 @60Hz

Scenario 1 **1 display connect to 1 native DP and additional 3 displays by daisy chain**

1920 x 1080 @60Hz
1920 x 1080 @60Hz
1920 x 1080 @60Hz

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OptiPlex Mini Tower

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OptiPlex Mini Tower

Mini Tower

- Intel® 13th gen hybrid core CPUs (Celeron – i5 65W)
- DDR4 memory up to 64GB
- Up to vPro™ Enterprise systems management
- AMD RX 6500 / 6300 Graphics
- 1x DP & 1x HDMI
- Energy Star and EPEAT Gold, No TCO

Mini Tower Plus

- Intel® 13th gen hybrid core CPUs (i3 – i9 65W/125W)
- DDR5 memory up to 128GB
- Up to vPro™ Enterprise systems management (i5 – i9 CPUs)
- NV RTX 3070 / 3050 & AMD RX 6500 / 6300 Graphics
- Native USB-C port / 3x DP up to 4K
- Energy Star and EPEAT Gold, TCO9

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OptiPlex AIO

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OptiPlex AIO

AIO

- Dark Grey rear cover
- Intel® 13th gen architecture
- AIO 35W without PSU/with External AC Adapter
- AIO 35W with DDR4 memory up to 64GB
- AIO 65W with DDR5 memory up to 64GB
- Up to vPro™ Enterprise systems management (i5 - i7 CPUs)

AIO Plus

- Premium Platinum Silver rear cover
- Intel® 13th gen architecture
- EMZA camera option with Presence Detection features in DO
- Discrete Graphics option
- DDR5 memory up to 64GB
- Up to vPro™ Enterprise systems management (i5 – i9 CPUs)

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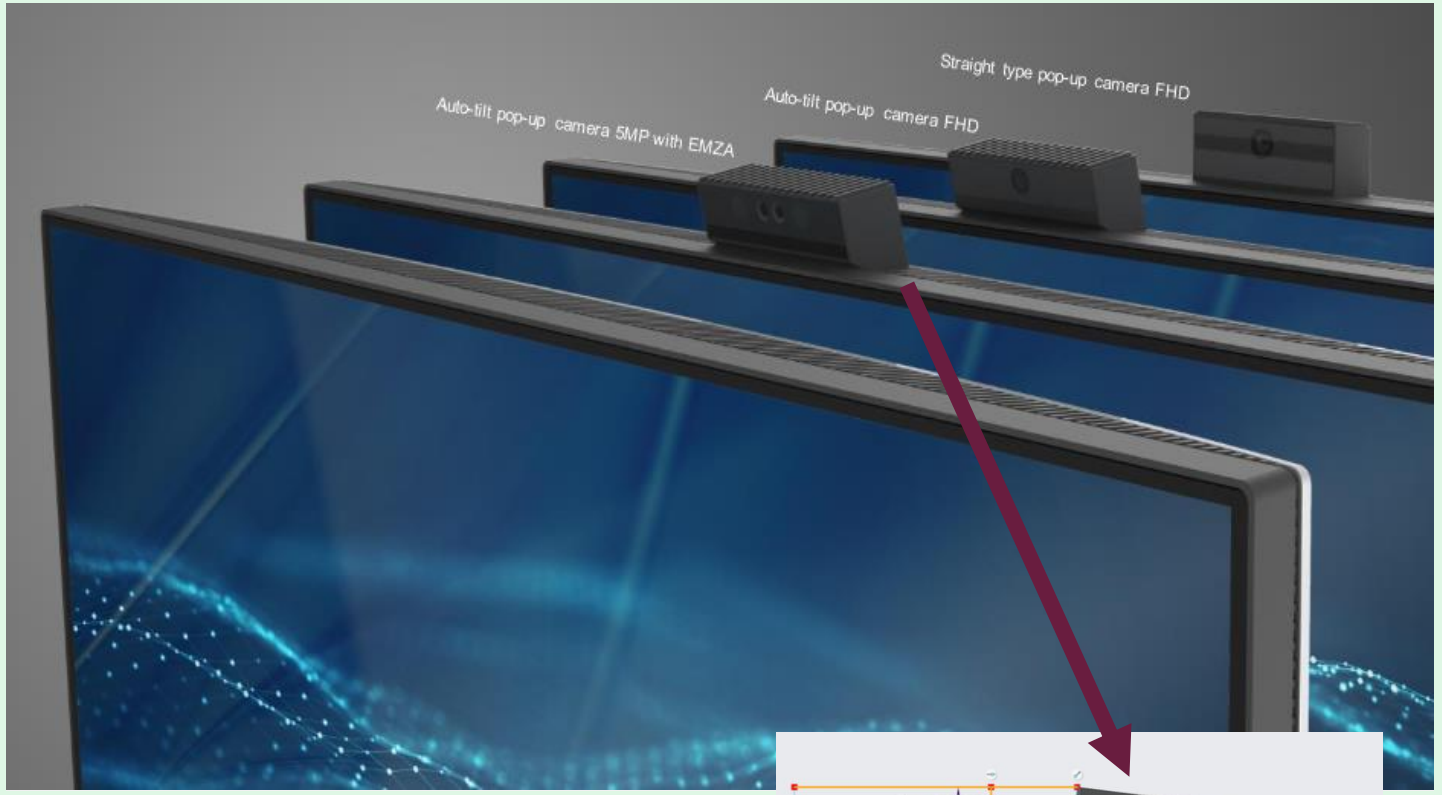
Camera Offerings

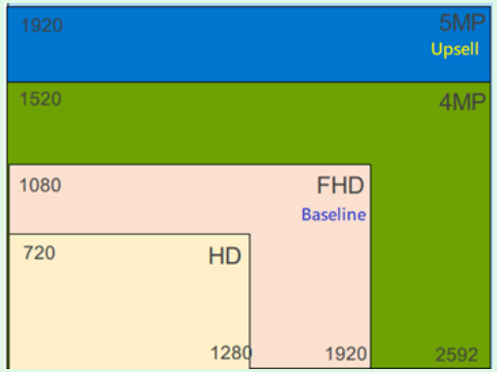
OptiPlex AIO

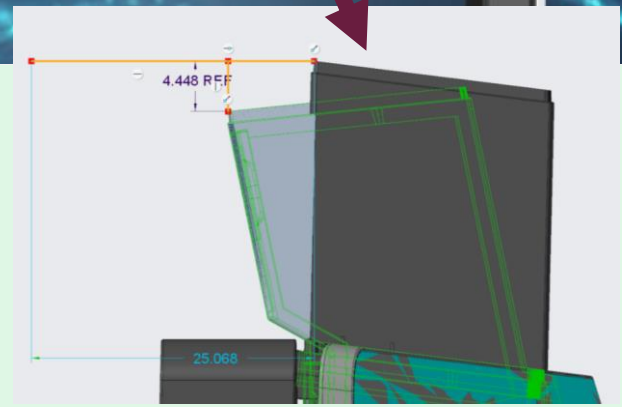
- Straight type pop-up
- FHD camera

OptiPlex AIO Plus

- Auto-tilt pop-up
  - For better eye level
  - Minimize distraction (-4.4mm height at front view)
- FHD camera
- 5MP EMZA camera (NEW)
  - ✓ 5MP: Higher resolution for better image quality.
  - ✓ IR to support Windows Hello facial recognition.
  - ✓ Proximity sensor to ensure users in front and centered during video calls.
  - ✓ EMZA (Presence Detection features in DO - Express Sign-in & Intelligent Privacy)







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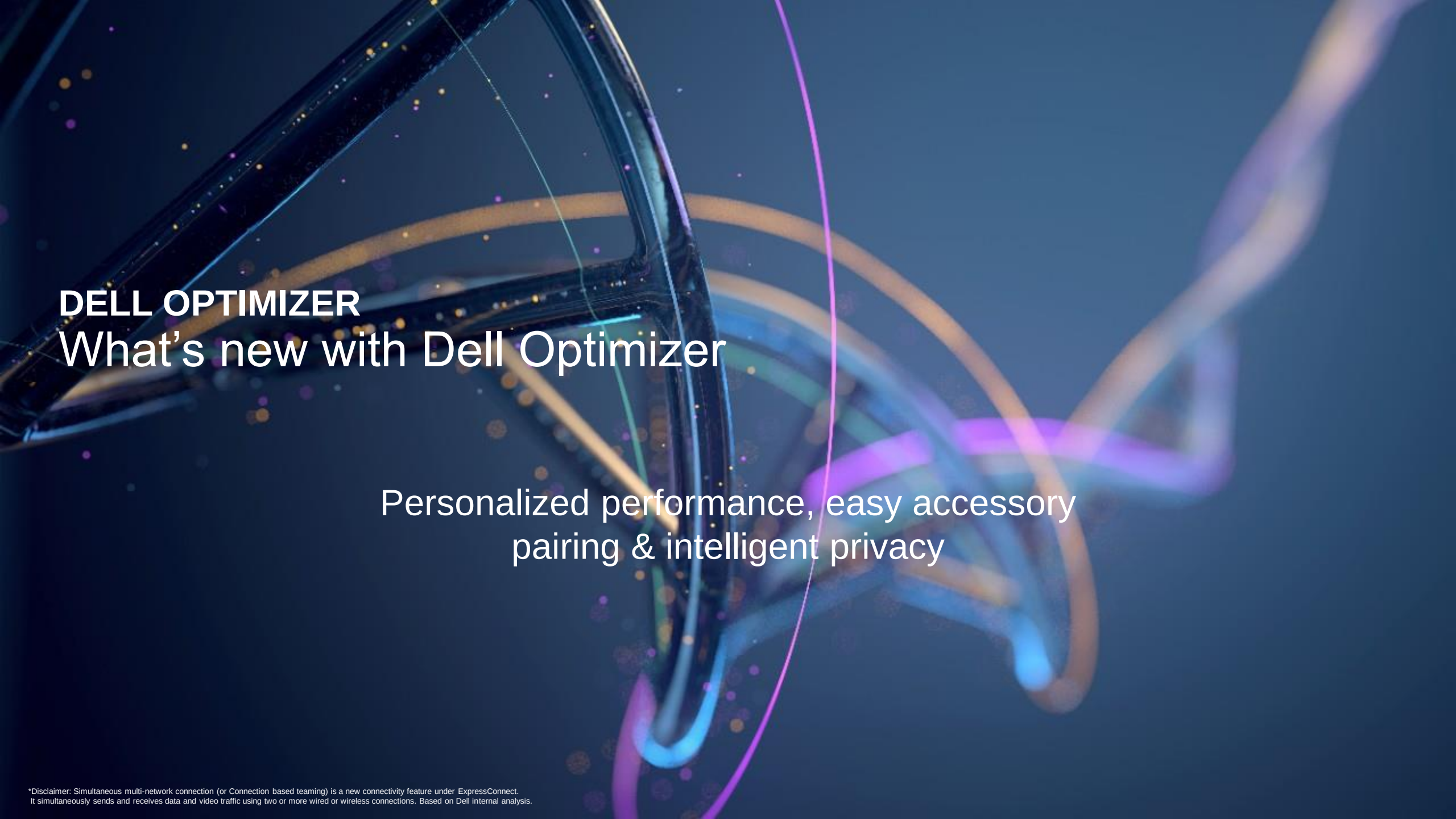


DELL OPTIMIZER

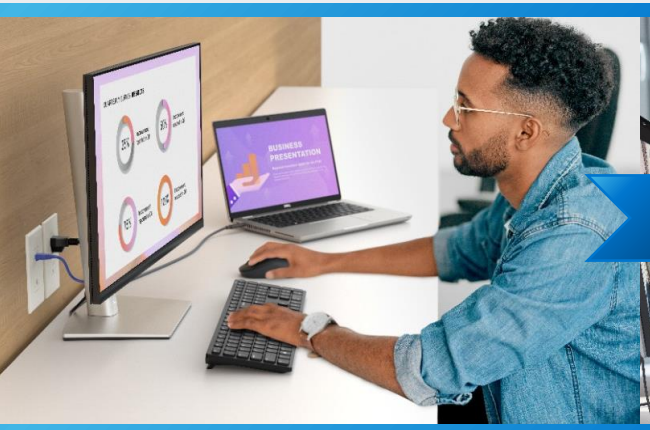
What’s new with Dell Optimizer

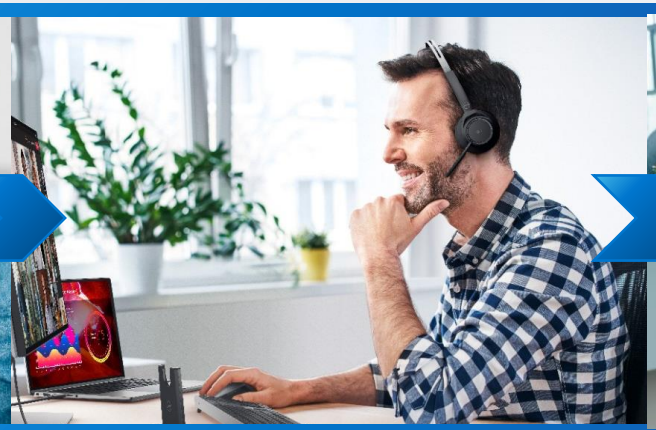
Personalized performance, easy accessory pairing & intelligent privacy

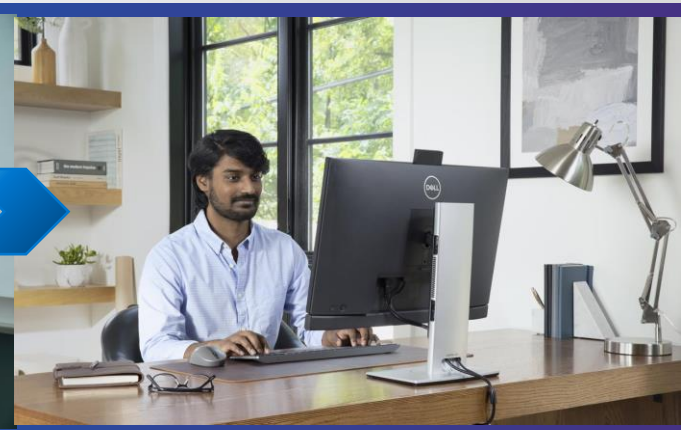
*Disclaimer: Simultaneous multi-network connection (or Connection based teaming) is a new connectivity feature under ExpressConnect. It simultaneously sends and receives data and video traffic using two or more wired or wireless connections. Based on Dell internal analysis.

Dell Optimizer improves critical areas of your PC in the background

7:45AM → **9:00AM** → **NOON** → **8:00 PM**







ExpressSign-in immediately welcomes you at work detecting your presence and opening your log-on screen.
(March 2023 Release, under 'Presence Detection' feature)

Intelligent Audio automatically reduces background noise and provides clearer sound.
(March 2023 Release w/ updates)

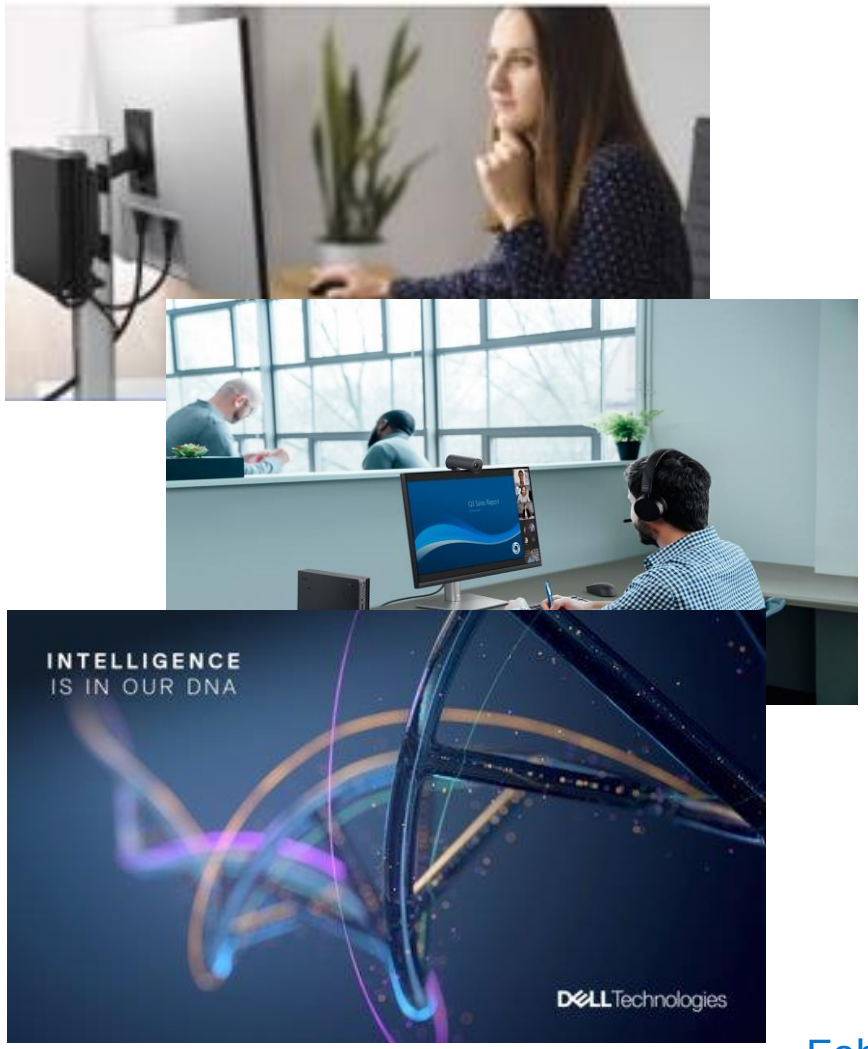
ExpressConnect helps in optimizing connectivity and prioritizing bandwidth for uninterrupted conferencing and productivity.

Intelligent Privacy keeps sensitive data private by texturizing the screen when an onlooker is detected and dims the PC when you look away.
(March 2023 Release, under 'Presence Detection' feature)

ExpressResponse intelligently ensures flawless application performance, all based on your application usage style and history.

Dell Optimizer Features Updates

Take personalized PC performance to the next level with Dell Optimizer – a built-in, AI-based optimization software that learns and responds to the way you work.



1. Dell Optimizer available across all configurations for new OptiPlex generation

2. Easy pairing and management of your Dell monitors and accessories with Dell Display Manager, Dell Peripheral Manager integration.

3. Intelligent Privacy/ Express Sign-in Update, now available on select OptiPlex AIOs and select Dell monitors.* (AIO PLUS with EMZA camera, See Footnotes for supported monitors)

4. *Major collaboration upgrade:* new optimization features within Intelligent Audio: Echo Cancellation, Voice Quality Monitoring.

February/March 2023 release

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Sustainability is at Our Core

Most sustainable desktop portfolio with recycle advancement and streamlined packaging via multipack

30 YEARS
DELL OPTIPLEX

OptiPlex is made with up to 65% recycled material

OptiPlex micro are designed with ocean-bound plastics in the fan and fan-housing

120+ EPEAT registered products

Energy Star 8.0 throughout portfolio

TCO 9.0

Multipack offers

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DELL LATITUDE

Customer Led Experience Tenets

COLLABORATIVE

To make it easier and more efficient to connect with others.

INTELLIGENT

To adapt and focus on what matters most.

DESIGN

To provide the finest attention to every detail.

SUSTAINABLE

To have a responsibility to protect and enrich our planet together.

SECURE

To offer trust and peace of mind anywhere.

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What's new with Latitude in 2023?

Redesigned 7000 and 9000

- **NEW Zero-Lattice keyboard** and 3-panel larger **Haptics Touchpad** on 9440
- New **Ultralight** 14" option 7440
- 7000 Series **lightest** Latitude 13"/14" ever
- New 7000 Series 16" (replaces 15.6")
- Expanded **Intel RPL-P** series offering (5000, 7000, 9000 series)

Collaboration focus

- **New** Top & bottom firing **grade A speakers** on 7000
- **5MP** IR Intelligent Privacy camera (7000)
- FHD Camera Options **now standard** across portfolio
- **Collaboration icons on 9000 series** now with Teams Support (Summer '23)
- **Voice isolation (Solo Mode)**
- Expanded **5G** capability

Increased productivity

- **NEW Battery-saving, Micro LED backlit keyboard** (9000/7000)
- FHD as base panel (5000)
- **NEW 7000 Series 16:10 displays**
- Commercial keyboard and touchpad on 3000 series
- CY23 products launching with **DO 4.0**

Sustainability expanded

- **Low carbon footprint**
- **75% recycled Aluminum** in 9440 (at RTS) and 50% on 7000 (~July)
- **EXPANDED** Bio-based/PCR material (9000, 7000, 5000)
- **64% more recycled** speaker housing and internal frame (5000)

Latitude 2023 Portfolio

Latitude 9000 Series

Latitude 9330 5G
13” 2-in-1
ADL U series (Gen13)

Latitude 9440 5G Only
14” 2-in-1
RPL U Series

Latitude 7000 Series

Latitude 7340 5G
13” laptop or 2-in-1
RPL U series
Ultralight (1kg)

Latitude 7440 5G
14” laptop or 2-in-1
RPL U series, P series
Ultralight (1.1kg)

Latitude 7640 5G
16” laptop
RPL U series, P series

Latitude 7320 4G
13” Detachable
TGL UP4 (Gen12)

Latitude 5000 Series

Latitude 5340 5G
13” laptop or 2-in-1
RPL U series

Latitude 5440 5G
14” laptop
RPL U series, P series

Latitude 5540 5G
15” laptop
RPL U series, P series

Latitude 3000 Series

Latitude 3340
13” laptop or 2-in-1
RPL U series

Latitude 3440 4G
14” laptop
RPL U series

Latitude 3540 4G
15” laptop
RPL U series

nternal Use – Confidential

13th Gen Intel® Core™ Mobile Processors

Processors for increasingly complex workloads

Thin-and-light notebooks	Performance notebooks	Mobile workstations
U-series	P-series	H-series
		i9-13900H 14 cores; i9-13950HX 24 cores
i7-1355U 10 cores	i7-1370P 14 cores	i7-13800H 14 cores; i7-13850HX 20 cores
i5-1335U 10 cores	i5-1350P 12 cores	i5-13600H 12 cores; i5-13650HX 14 cores

Latitude 3000 Series Highlights

Up-leveled essential productivity

Commercial Upgrade
Commercial level quality keyboard, touchpad & batteries

Refined Design
Refined laser texture, soft charcoal colour for 14” &15”

Business-class performance
Powered for productivity with newest Intel 13th Gen CPU up to i7 (N-1 i3 ADL)

Improved Battery Performance
Longer life-cycle batteries (42Whr entry), upsell to 54Whr for optimal battery life

Intelligent Collaboration
FHD+IR camera, now offered on non-touch configs for 14” and 15”

Improved Intelligent Audio
Optimizes speakers and removes echoes on both ends

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Battery Design

Standard Battery vs. Long Cycle Life Battery

Standard Battery

- Up to 300 charging cycles
- 1-year limited hardware warranty

Long Cycle Life Battery LCL

- Up to **1000** charging cycles
- **3**-year limited hardware warranty

	Long Cycle Life Battery (LCL)
# of cells (Varies by PC model)	• 3 cells (Latitude / Precision 3x80) • 4 cells (Precision 3581 / 5480 / 5680) • 6 cells (Precision 5680 / 7x80)
Battery Capacity	• 38 / 42 / 50 / 54 / 57 / 60 Whr (3-cells) • 64 / 66 / 72 Whr (4-cells) • 83 / 93 / 99.5 Whr (6-cells)
Benefits	• Better battery life over the PC lifecycle • Better for the environment (only one battery is needed over the PC lifecycle, up to 3 years) • Less service time needed for IT • Less downtime for the user • Less risk of swelling • Express Charge 1.0 (Charge up to 80% in 1hr)
Charging Cycles	• Up to 1000 charging cycles
Warranty	• 3-year limited hardware warranty
Available in	• Latitude 3000 / 5000 / 7000 / 9000 • Precision 3000 / 5000 / 7000 • Chromebook 3110

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2023 | 3x40 13”/14”/15” Series

Up-leveled essential productivity

CAMERA
Improved FHD+IR camera offered also on non-touch configs for 14” and 15”

UPDATED DESIGN
New refined Laser Texture with Soft Charcoal colour and smaller footprint for 14” and 15”

DISPLAY
Leveraged with Lati 5000
Active touch and pen support on 13” 2in1
FHD non-touch and touch panels

COMMERCIAL INTELLIGENCE
Dell Optimizer 4.0

UPGRADED TOUCHPAD
Leveraged from Latitude 5000 CY22
Quieter and more premium clicks with higher rigidity
Smooth glass-like feel

POWERFUL PERFORMANCE
Intel U15 RPL CPU up to i7
Entry-level 8GB memory
LPDDR5 memory up to 16GB on 13”
DDR4 up to 64GB on 14/15
SSD only storage options
128GB SSD* on 14/15 for NA Academic OS only (EDU)
Optional Discrete MX550 on 14” and 15”

IMPROVED KEYBOARD
Leveraged from Lati 5000 CY22
Longer key travel, laser-etched key prints
Mic mute

NEW BATTERIES
3-cell 42Whr and 3-cell 54Whr
Each battery will offer Long Life-Cycle version
Shared with Latitude 5000 CY23
Improved battery life

*Please note that once we consume the SSD volume. We will introduce 128 eMMC drive.

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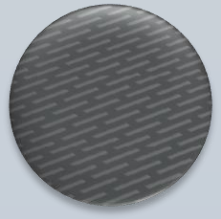
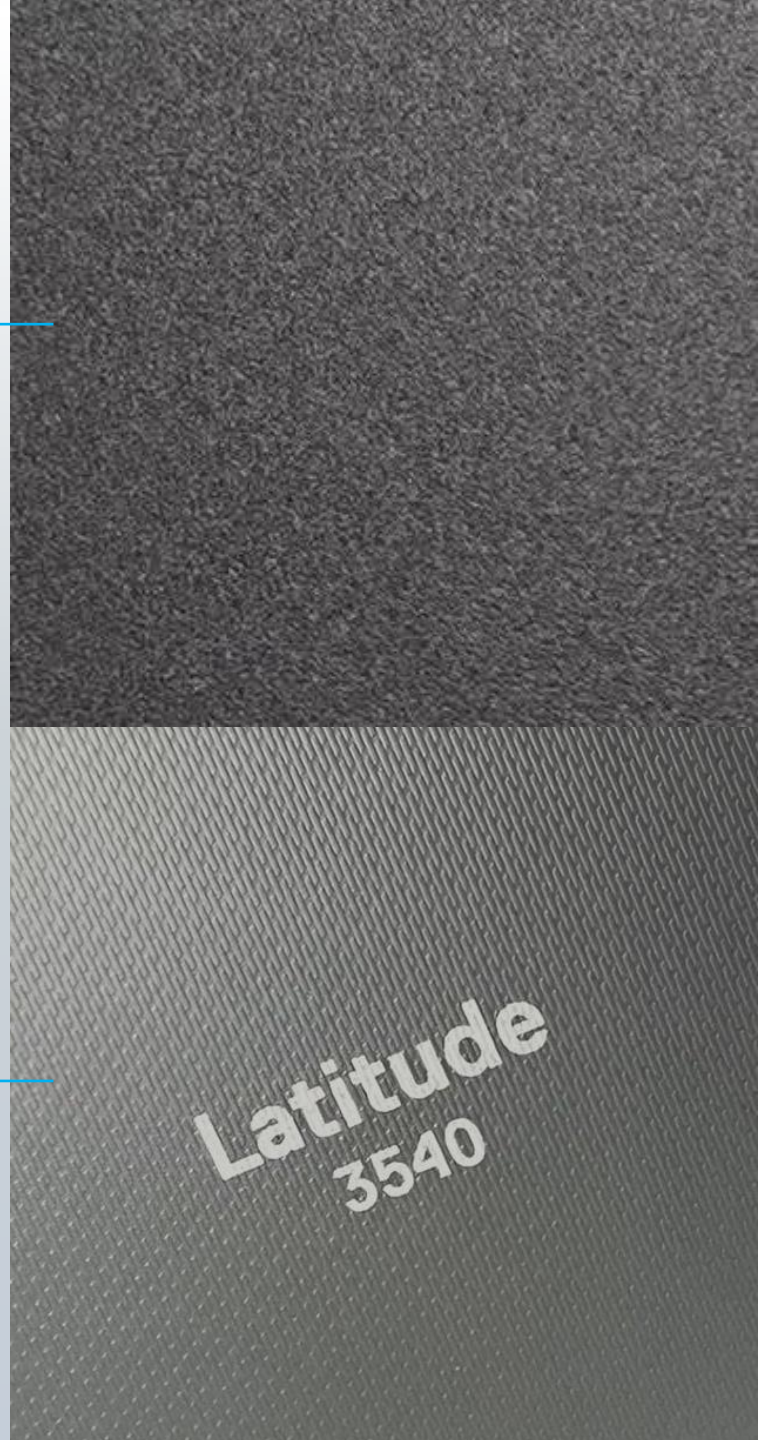
3420/3520/3430/3530

Apollo, Resin

3440/3540

Soft Charcoal, Resin





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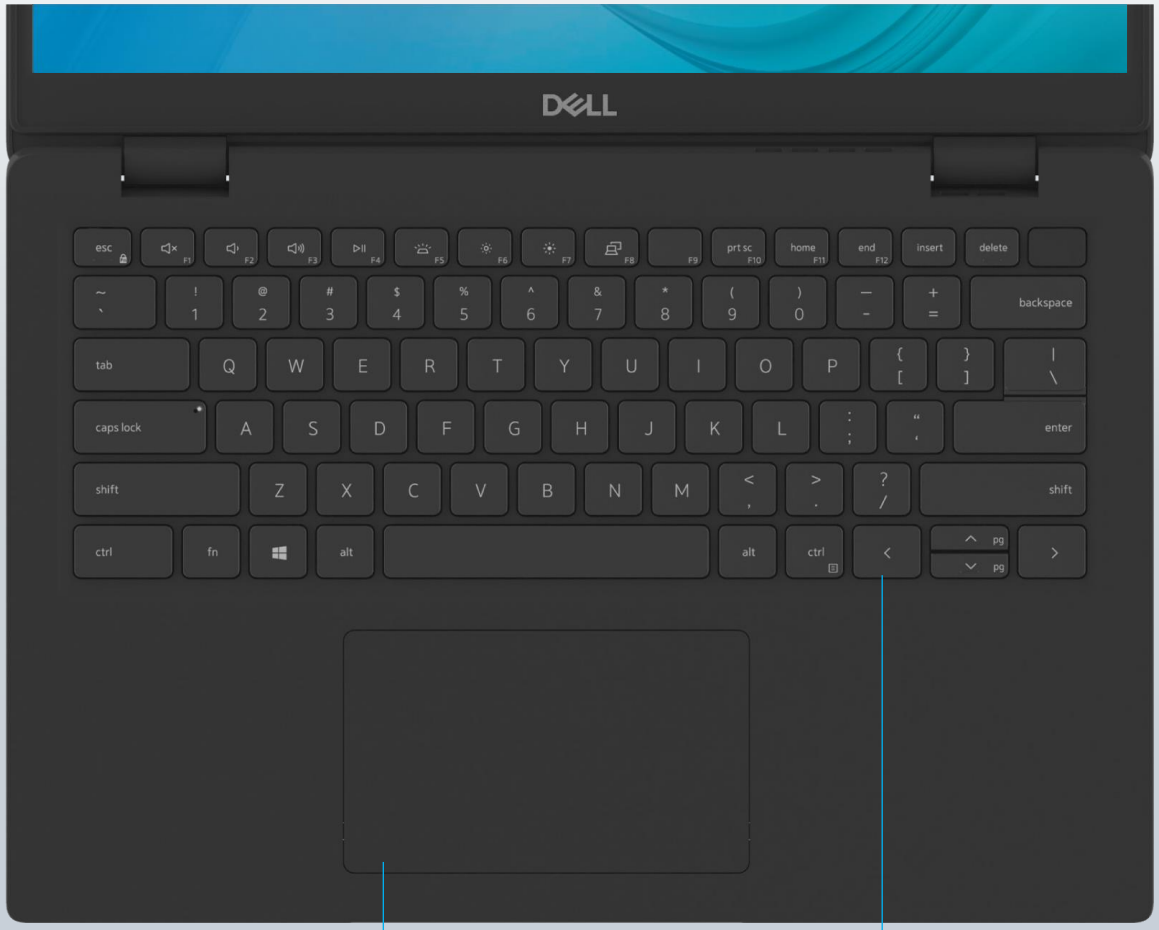
New Latitude 3x40 Keyboard & Touchpad

Consumer Keyboard/Touchpad V.S. Commercial Keyboard/Touchpad

Latitude 3420/30



Consumer Clickpad with 0.8mm PCB

1.3mm Key travel
1 legend color
Texture + silk printing

Latitude 3440

Commercial Clickpad with 1.5mm PCB

1.5mm Key travel
2 legend colors
2 layers WB painting + Laser etching
+ silk printing

*F9 with webcam off feature only available on ISC backlit keyboard

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Latitude 3440

FHD+IR webcam

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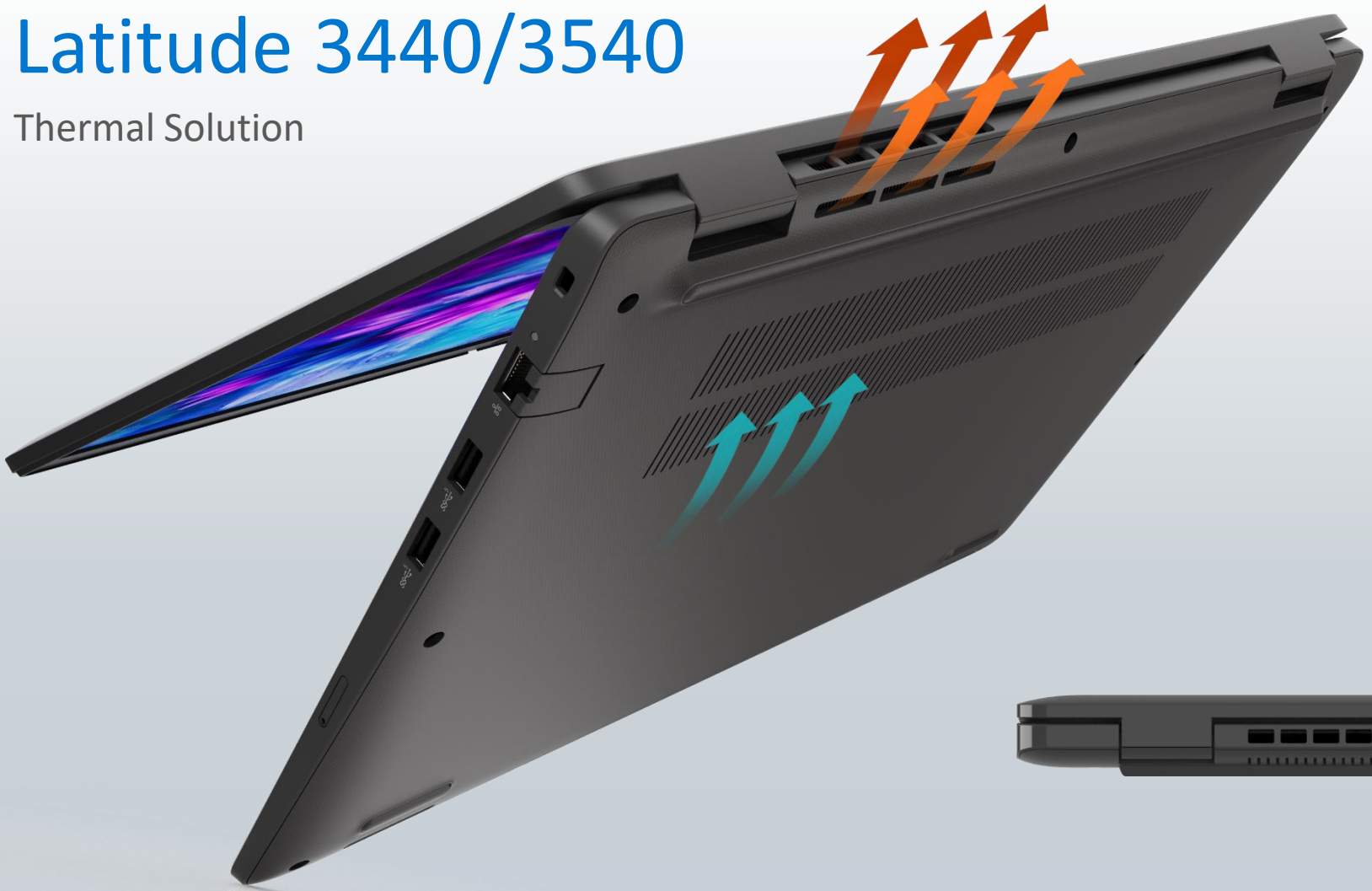
Latitude 3440/3540

Thermal Solution



Latitude 3420

Latitude 3440

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Latitude 5000 Series Highlights

Our most scalable and sustainable Latitude

Most Sustainable

60% more sustainable materials used Gen/Gen

Better Connectivity

5G across 13/14/15
4G upgraded to CAT16

Better Collaboration

Grade B Speakers 14/15
Grade A touchpad
FHD Cam with TNR3 standard

Ultimate Performance

P28 CPU, discrete graphics & up to 64GB DDR5 on 14“/15“

Enhanced Thermals

Cooler Temps and quieter operation

Most Secure

FPR, ControlVault™, TPM2.0, SmartCard, FIPS FPR option

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2023 | Latitude 5x40 13”/14”/15” Series

Our most scalable and sustainable Latitude

CAMERA
FHD RGB is the new basic camera
Optional EMZA camera

DISPLAY
No HD, UHD or SafeScreen
(Optional Intelligent Privacy capabilities)

CONNECTIVITY
5G across all sizes & 4G now CAT16

BETTER SPEAKERS
Grade B on 14/15
Grade C on 13

THERMAL ENHANCEMENTS
Cooling vents moved to back on 13/14

COLLABORATION
Premium Clickpad – Grade A
Increased size

PERFORMANCE
LPDDR5 4800MHz on the 13
DDR5 4800MHz available with P28 CPUs on 14/15

DISCRETE GRAPHICS EXPANDED TO 14”
Discrete tied to P28 CPU
P28 available with UMA as well

eSIM now on MoBo
Can use eSIM and SIM at the same time

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Latitude 7340 & 7440 Ultralight Highlights

Light as a Feather

Lightest Latitude Starting at 982g (13”) & 1.055kg (14”)	**New Chassis** Magnesium chassis in River colour
Two Sizes Now available on the 13” & 14” machines	**Clamshell Only** To maintain aggressive weight targets
Additional Options WWAN, 3-cell battery*, Touch, FPR	**Premium Collaboration** 5MP MIPI camera & top-firing speakers

** 3-cell battery on next gen will be a match for a 4-cell battery this gen*

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Latitude 7000 13”/14“/16” Standard

Premium Mobility and Productivity Re-Defined with 16:10 displays and leading experiences standard

PREMIUM DESIGN
100% stamped aluminum at same cost of previous gen carbon fiber

CONNECTIVITY
5G Upsell Expansion
WiFi 6E as a base

FRONT OF SCREEN EXPERIENCE
New 16:10 displays (most panels feature LBL)
QHD Touch Upsell
Class leading narrowest bezels (89% STB ratio)

COLLABORATION
Best In Class Conferencing
Top Firing Speakers
Grade A speakers (up from Grade B)
Camera Quality (5MP MIPI Upsell)

INTELLIGENCE
Dell Optimizer 4.0

COMMERCIAL PERFORMANCE
Intel Raptor Lake CPU’s
Grade A Acoustics
Added USB-A port to 14” (2 now)
Full security options
P28 Expansion (14”/16”)
Up to 64GB LPDDR5 *(post-RTS)*

PRODUCTIVITY
Micro LED Keyboard – real world impact
Increased clickpad size and click quality
Two battery sizes (38W and 57W)

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Micro LED Backlit Keyboard

Real world battery life
saving impact

Improved productivity
ISO compliant
Serviceable

An **improved click feel and enlarged touch pad (20-33% larger)** increases productivity and enhances collaboration.

High-quality top and bottom firing speakers located on the side of the keyboard and below the front edge, deliver clear audio for when users are on conference calls.

Collaboration Made Easy

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Enhanced camera experience.

Now featuring FHD MIPI (Mobile Industry Processor Interface) on all infra-red cameras.
An optional 5 mega pixel camera (standard on Ultralight) delivers users improved video call quality.

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Latitude 9000 Series Highlights

The Ultimate Collaboration PC in an Ultra-Premium Design!

Ultra-Premium Design Zero-Lattice Battery-saving Backlit KBD Edge-to-edge 3 Panel Touchpad	**Most Collaborative** Haptics Collaboration touchpad Build-in Video Enhancements
Enhanced Productivity Up to 64GB LPDDR5x memory, 2TB SSD Dell Optimizer 4.0	**Most Sustainable** Low Carbon 75% Recycled AL Bio-based materials in KBD

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Distraction-free design.

The new Latitude 9440 2-in-1 features an entirely new interior that removes distractions so users can focus on their tasks. By maximizing the user interface area and simplifying the design, it creates an inviting space to be productive. One smooth, consistent area delivers a cleaner iconic appearance and enhances the user experience.

Haptic Collaboration Touchpad

Haptic feedback
Customize the haptic feedback on your touchpad so every click feels just right and controlled

Collaborate Effectively
Use collaboration icons on the touchpad to control your zoom meetings

Icons available only when you need them
Icons activate during a zoom meeting and disappear after. You can also swipe to make them invisible

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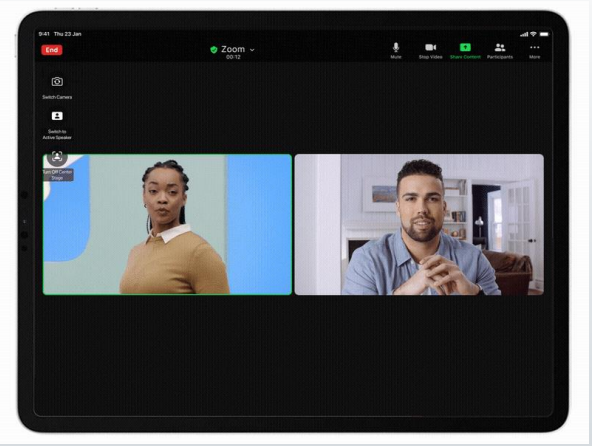
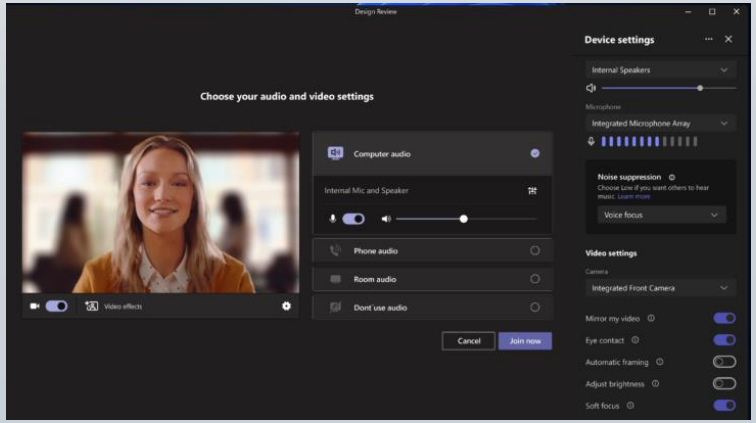
Intel Movidius AI VPU powering Windows Studio Effects



Auto-Framing
Camera follows you around, always keeping you in focus

Eye Contact Correction
Ensure that you are always looking at the other participant, even when you are looking at the screen



Premium Background Blur
Background blur so your ears and fingers are all still in place

Latitude 9440

A peek Into The Future Of Work From Anywhere, Focused on Collaboration & Productivity

CAMERA & SECURITY
Electromechanical SafeShutter
Onlooker Detection & Look Away Detect
Built-in video enhancement

ULTRA PREMIUM DESIGN
CNC Aluminium – Graphite Colour
Zero Lattice Keyboard
Edge-to-edge 3 panel touchpad

CONNECTIVITY
WiFi6E, 5G & Express Connect

COMMERCIAL PERFORMANCE
Intel Raptor Lake CPU's
Up to 64GB LPDDR5x

PREMIUM FRONT OF SCREEN EXPERIENCE
2-in-1 Form Factor
16:10 Aspect Ratio
Highest screen-to-body ratio
Up to 7% more viewing area than competition
Corning Gorilla Glass6

INTELLIGENCE
Dell Optimizer 4.0

PRODUCTIVITY
Increased clickpad size and click quality
Micro-LED Backlit technology

COLLABORATION
Collaboration touchpad with Haptic Feedback
Intelligent Audio and Video Tuning

GOOD FOR THE PLANET
75% low carbon, recycled aluminum

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LATITUDE 9430 VS 9440

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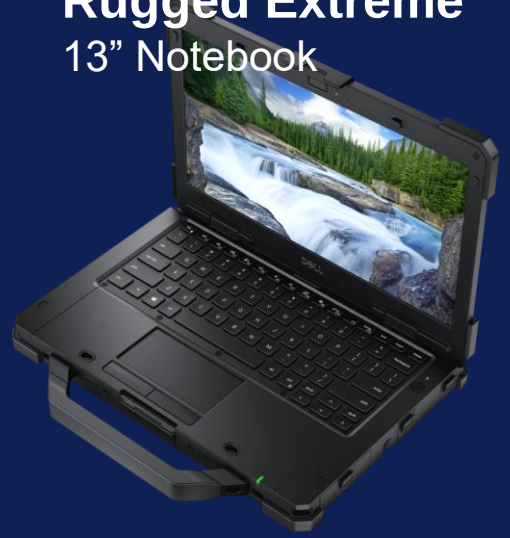
THE NEW DELL LATITUDE RUGGED PORTFOLIO

5430 Rugged
14” Notebook

7330
Rugged Extreme
13” Notebook



Latitude 7220 Rugged Extreme
11.6” Tablet

NEW Latitude 7230
Rugged Extreme
12” Tablet w/ Full size Keyboard

Semi Rugged Class

- MIL-810H Certified Semi Rugged
- 3 foot drop (0.9m)
- IP53 Protection for Dust/Water

Fully - Rugged Class

- MIL-810H Certified Fully-Rugged
- 4 to 6 foot drop (1.2m to 1.8m)
- IP65 Protection for Dust/Water
- Certified for Hazardous Location Use
- MIL-STD 461F

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VOSTRO FAMILY

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Vostro 2023 Portfolio

New models

Vostro 5000 Series

Vostro 5630

16” laptop 16:10
RPL U15, P28

Latitude 5635

16” laptop 16:10
AMD Ryzen 5000

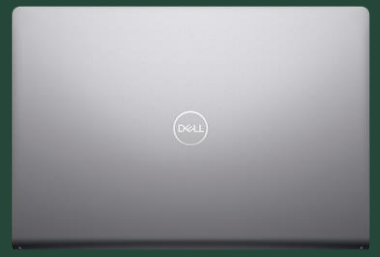
Vostro 3000 Series

Vostro 3430

14” laptop RPL U15 from Oct, alum chassis upsell

Vostro 3435

14” laptop AMD alum chassis upsell



Vostro 3535

15” laptop AMD alum chassis upsell

Vostro 3530

15” laptop RPL, alum chassis upsell

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Vostro 15” 3530 (Intel). 3535 (AMD)

Color options:

NEW!

VOSTRO 15 | 3530 3535

13th Gen Intel® Core™ and AMD Ryzen™ 7000 series processors

TPM 2.0 security chip

Aluminum chassis upgrade with a variety of extra features

Single sign-on fingerprint reader

Dell ComfortView

Express Charge

41 / 54 WHR battery

Adaptive thermals

Spill resistant KB with a large touchpad

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Vostro 16” 5630 (Intel), 5635 (AMD)

Color options:

NEW!

VOSTRO 16 | 5630 5635

13th Gen Intel® Core™ and AMD Ryzen™ 7000 series processors

TPM 2.0 security chip

FHD webcam with Wide Dynamic Range & Temporal Noise Reduction

Military tested (MIL-810H)

Dell ComfortView/ Plus

Dual heat pipes

Built-in dual mic & AI reduces background noise

Adaptive thermals

NVIDIA® GeForce® MX570 Graphics

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Workstation market trends

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Workstation Market Trends

Hybrid Working

Refined Mobility

Form factor Shift

Power Users

Artificial Intelligence

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How To Identify A Power User?

Power Users Are Inside Every Element Of Every Business.

Waiting Times

Fan Noise

Overheating

User Frustration

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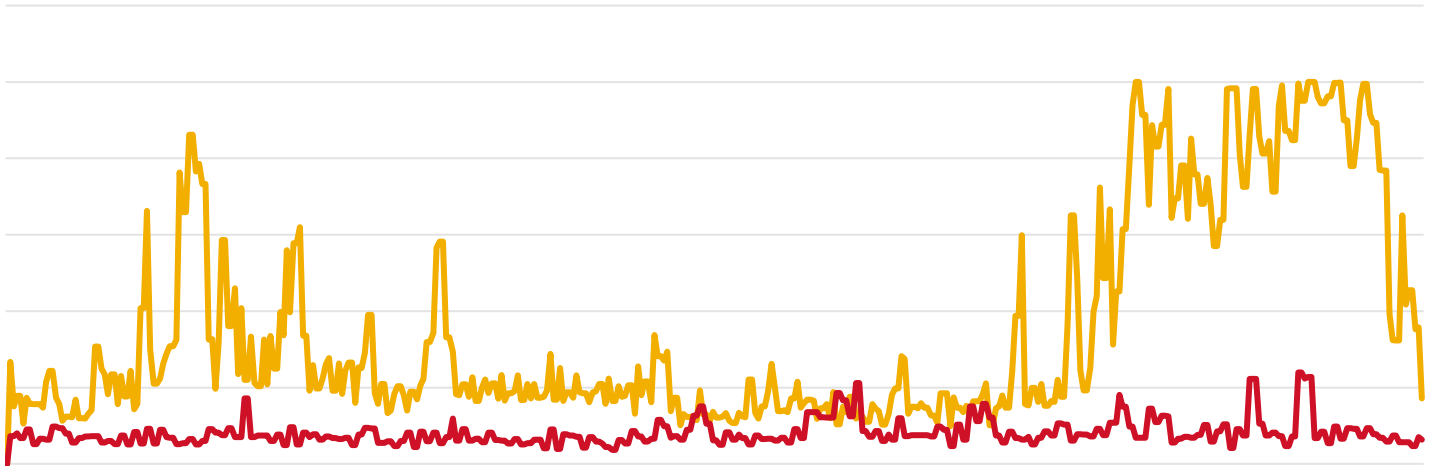
Dedicated Graphic Cards Are Not Only for Specialists

Reducing The CPU Overhead In Microsoft Teams



Without a dedicated GPU, on average Microsoft Teams utilized 35% of the processor.

With a dedicated GPU, Microsoft Teams utilization never spiked more than 24% of the CPU and averaged 8% CPU utilization.

Name	Status	13% CPU	54% Memory	0% Disk	0% Network	21% GPU	GPU engine
Apps (11)							
Microsoft Outlook		0.2%	172.2 MB	0.1 MB/s	0 Mbps	0%	
Microsoft Power BI Desktop (3)		0.1%	635.1 MB	0 MB/s	0 Mbps	0%	
Microsoft Power BI Desktop (3)		0.1%	608.0 MB	0 MB/s	0 Mbps	0%	GPU 0 - 3D
Microsoft Power BI Desktop (21)		1.9%	2,844.2 MB	0 MB/s	0 Mbps	5.5%	GPU 0 - 3D
Microsoft PowerPoint (3)		0.1%	530.8 MB	0 MB/s	0 Mbps	0%	
Microsoft Teams (9)		3.2%	810.4 MB	0.1 MB/s	0 Mbps	21.2%	GPU 1 - 3D
RSA SecurID Software Token Cli...		0%	3.1 MB	0 MB/s	0 Mbps	0%	
Snipping Tool (2)		0.9%	11.6 MB	0.1 MB/s	0 Mbps	0.1%	GPU 0 - 3D

Benchmark testing was completed on a 5000 series mobile Precision workstation built with **Intel Corei7-9850H Nvidia Quadro T1000**

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Fixed Precision 2023 Portfolio

3260	Refresh
3460	Refresh
3660	Refresh
5860	New
7960	New
R7960	New

Apr ‘23

Mar ‘23

Mar ‘23

Mar ‘23

Mar ‘23

Mar ‘23

7960 Tower

5860 Tower

3660 Tower

3460 SFF

3260 CFF

7960 Rack

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What's new in 2023 with Fixed Precision

5000 / 7000 Tower and Rack refresh

Our first refresh of high-end tower and rack systems since 2017!

- **NEW** Introducing the very latest Intel Sapphire Rapids CPU technology
- **NEW** Xeon W up to 24 cores on 5000 series
- **NEW** SSS (Super Single Socket) up to 56 Cores on 7000 Tower
- **NEW** Industrial designs
- **NEW** DDR5 memory support up to 4400/4800MHz
- **NEW** PCIe Gen5 / Gen4 slots
- **NEW** Up to 4x300W graphics on Tower 7960

3000 Series Refresh

3000 series refresh with next gen Intel 13th gen Raptor Lake CPUs

- **NEW** Up to 65W Core i9 with 24 cores (8P + 16E)
- **NEW** Support for 4800MHz DDR5 memory

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Mobile Workstation

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2023 Mobile Precision Portfolio

	New **Precision 3480** **March '23**	New **Precision 3580** **March '23**	New **Precision 3581** **March '23**	**Precision 5480** **April '23**	New **Precision 5680** **May '23**	**Precision 7680** **March '23**	**Precision 7780** **March '23**
Cost	Most affordable 14" MWS	Most affordable 15" MWS	Best price for performance	Mid to High	Mid to High	Mid to high	Mid to high
CPU	**U/P-**series 15W/28W *up to i7 14 cores (6P+8E)*	**U/P-**series 15W/28W *up to i7 14 cores (6P+8E)*	**H**-series 45W *up to i9 14 cores (6P+8E)*	**H**-series 45W *up to i9 14 cores (6P+8E)*	**H**-series 45W *up to i9 14 cores (6P+8E)*	**HX**-series 55W *up to i9 24 cores (8P+16E)*	**HX**-series 55W *up to i9 24 cores (8P+16E)*
Graphics	Up to NVIDIA RTX A500-class graphics	Up to NVIDIA RTX A500-class graphics	Up to NVIDIA RTX A2000-class graphics	Up to NVIDIA RTX A3000-class graphics	Up to NVIDIA RTX A5500-class graphics	Up to NVIDIA RTX A5500-class graphics	Up to NVIDIA RTX A5500-class graphics
Storage	1x M.2 slot up to 2TB	2x M.2 slots 3TB (2TB + 1TB)	2x M.2 slots 4TB (2x 2TB)	1x M.2 slots, up to 4TB	2x M.2 slots up to 8TB, RAID options	Up to 3x M.2 slots up to 12TB; RAID options	4x M.2 slots up to 16TB, RAID options
Memory	Up to 64GB DDR4 3200Mhz nECC (15W UMA only) or up to 64GB DDR5 4800Mhz nECC	Up to 64GB DDR4 3200Mhz nECC (15W UMA only) or up to 64GB DDR5 4800Mhz nECC	Up to 64GB DDR5 4800Mhz non-ECC	Up to 64GB LPDDR5 ~6000MHz Non-ECC (soldered down)	Up to 64GB LPDDR5 ~6000MHz Non-ECC (soldered down)	Up to 128GB 5600MHz DDR5 CAMM or 64GB 5600MHz nECC/ECC SO-DIMM	Up to 128GB 5600MHz DDR5 CAMM or 64GB 5600MHz nECC/ECC SO-DIMM
Display	14" - up to FHD HDR400 100% color gamut, LBL, optional Touch	15" - up to UHD HDR400 100% color gamut, LBL, optional Touch	15" - up to UHD HDR400 100% color gamut, LBL, optional Touch	14" (16:10) – up to QHD+ 500 nits, LBL, optional Pen/Touch	16" (16:10) – FHD+ 500nits or 4k OLED Touch, DCI-P3, LBL	16" (16:10) - up to UHD+ OLED; HDR500 100% DCI-P3, LBL, optional Touch	17.3" - up to UHD HDR400 100% Adobe, LBL
Chassis / Size / Weight	Plastic reinforced with Carbon Fiber 321 x 212 x 19f mm 3.09lbs/1.4kg	Plastic reinforced with Carbon Fiber 358 x 236 x 21f mm 3.63lbs/1.65kg	Plastic reinforced with Carbon Fiber 358 x 233 x 23f mm 4.01lbs/1.82kg	Aluminum 310.6 x 210.3 x 11.09f mm 3.26lbs/1.48kg	Aluminum 353 x 240 x 20f mm ~4.5lbs/1.99kg (tbc)	Aluminum 356 x 258 x 22f 5.75lbs/2.60kg	Aluminum 398 x 265 x 26f mm 6.65lbs/3.01kg

What's new in 2023 with Mobile Precision

New product designs

NEW **New 16" Mobile Precision 5680 series**

NEW **New entry-level Mobile Precision 3-series workstations (3 new models: P3480 / P3580 / P3581)**

Cross-platform features

- **Next gen Intel 13th gen Raptor Lake** technology
- **Next gen NVIDIA graphics cards**
- **Faster system memory (Precision 5/7-series)**
- **Improved video conferencing experience** (FHD RGB camera on P3-series and P5680)
- **Improved acoustics** driven by smaller batteries and larger fans in new P3/5-series models
- **Enhanced sustainability** (Expansion of recycled and renewable plastics content in new P3/5-series products)

Product-unique features

Precision 7780

- NVIDIA RTX A2000-class graphics added

Precision 5480

- 2 additional, more powerful graphic cards added (up to A3000-class graphics)
- Up to 64GB of system memory

Precision 3480

- WWAN solution (4G / 5G) now added to Precision 3480 scope
- Discrete graphics available at RTS

Precision 5680

- Broader graphics card scope (With up to NVIDIA RTX A5500-class graphics same as P7-series + Intel Arc graphics (post-RTS))
- UHD+ OLED Touch display
- HDMI port
- Optional Smart Card Reader
- Proximity detector

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Mobile Precision 3000 Series

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Blue font = Changes from previous gen

Mobile Precision 3581

The best price for performance in the entry workstation-class space

Enhanced camera and privacy

15” infinity display with up to FHD 100% sRGB, 400 nits

Express experiences

Up to WIFI 6E with optional WWAN 4G or 5G WWAN FIRSTNET READY

Pro2 ID full-size keyboard

Optional smart card reader

Mission critical reliability

13th Gen Intel Core H45W i5 vPro/Trans, i7 vPro/Trans, i9 vPro

Latest professional grade memory, storage, and graphics

Advanced thermal management

Optional Fingerprint Reader integrated with power button

Up to 6 cell 97Wh battery

Starting weight: 4.01 lbs / 1.82 kg

Glass-like click pad

Expansion of recycled and renewable plastics content

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Mobile Precision 5000 Series

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2023 Mobile Precision 5000 Series Evolution

CY22 5000 Series

CY23 5000 Series

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Mobile Precision 5680

The smallest and most powerful 16” mobile workstation in the world

FHD Webcam / Low Power Vision

16.0” 16:10 Narrow Bezel Display

Sustainable Materials

Most Performance Ever In Our 5000 Series

Extended Power Range Adapter

Class Leading Form Factor

Premium Audio

Wifi 6E

100Whr Battery

Haptic Trackpad with glass surface

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Mobile Precision 5480

The smallest and most powerful 14” mobile workstation in the world

Enhanced camera and privacy

13th Gen Intel Core H45W
i5 vPro/Trans, i7 vPro/Trans, i9 vPro

More performance than ever in our 14” mobile workstation

14.0” 4-sided infinity display

Industry leading thermals

2023 express experiences

WIFI 6E R2

Top/firing speakers

Optional Smart Card Reader

750Wh/L cells

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Mobile Precision 7000 Series

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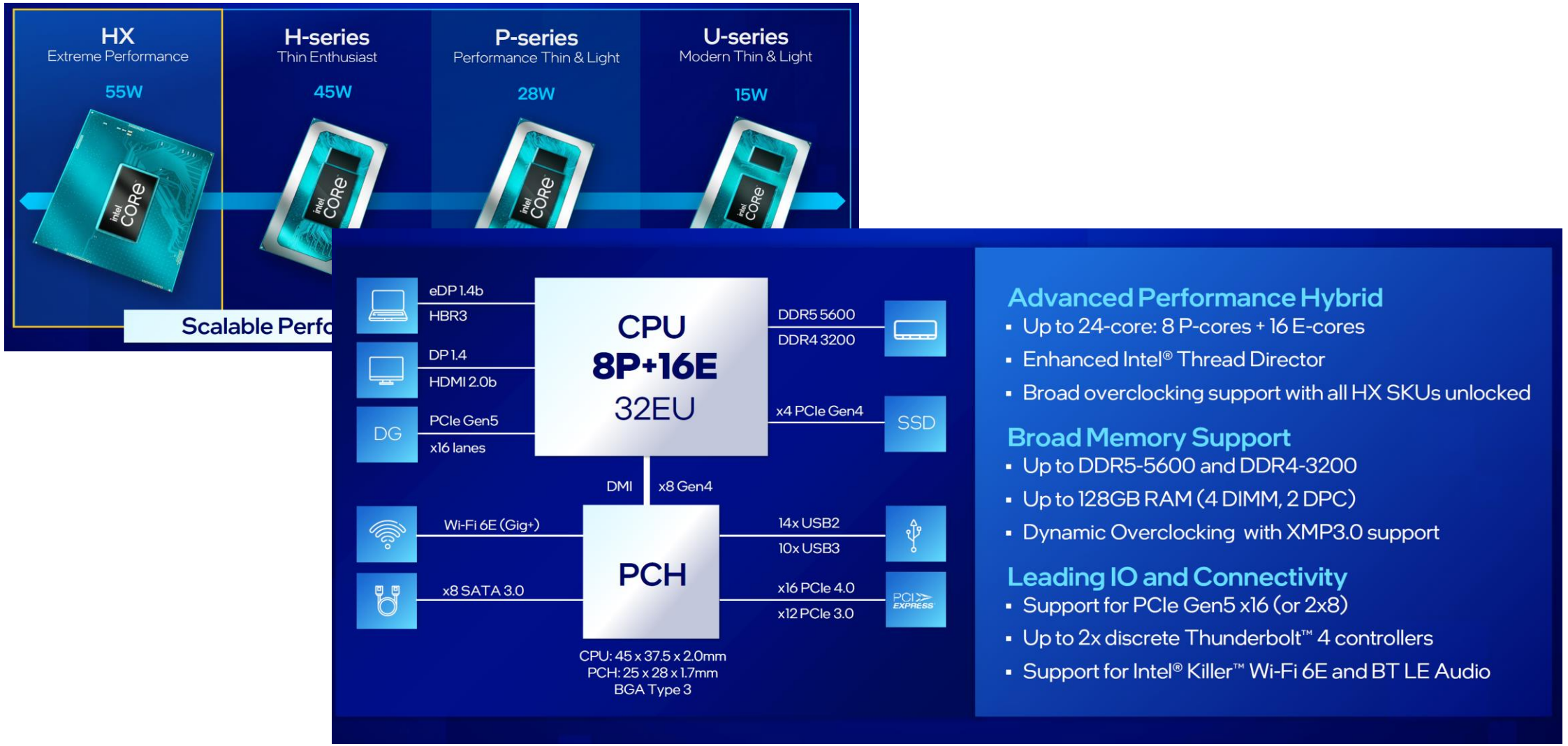
13th Gen Intel Core HX Platform



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Mobile Precision 7680

Maximum performance and scalability in a 16” mobile workstation

ENHANCED CAMERA AND PRIVACY

16” 16:10 MOBILE WORKSTATION

16” 16:10 NARROW BEZEL DISPLAYS

DELL CAMM MEMORY FORM FACTOR

EXPRESS EXPERIENCES

SEQUENTIAL HINGE DESIGN

LATEST WIRELESS STANDARDS

INDUSTRY LEADING THERMALS

IMMERSIVE AUDIO

750Wh/L Cells

CLICK PAD

PRO 2.5 KEYBOARD

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Mobile Precision 7780

The ultimate in performance and scalability for desktop replacement

ENHANCED CAMERA AND PRIVACY

17.3” 16:9 MOBILE WORKSTATION

17.3” 16:9 DISPLAYS

DELL CAMM MEMORY FORM FACTOR

EXPRESS EXPERIENCES

SEQUENTIAL HINGE DESIGN

LATEST WIRELESS STANDARDS

INDUSTRY LEADING THERMALS

IMMERSIVE AUDIO

750Wh/L Cells

CLICK PAD

PRO 2.5 KEYBOARD

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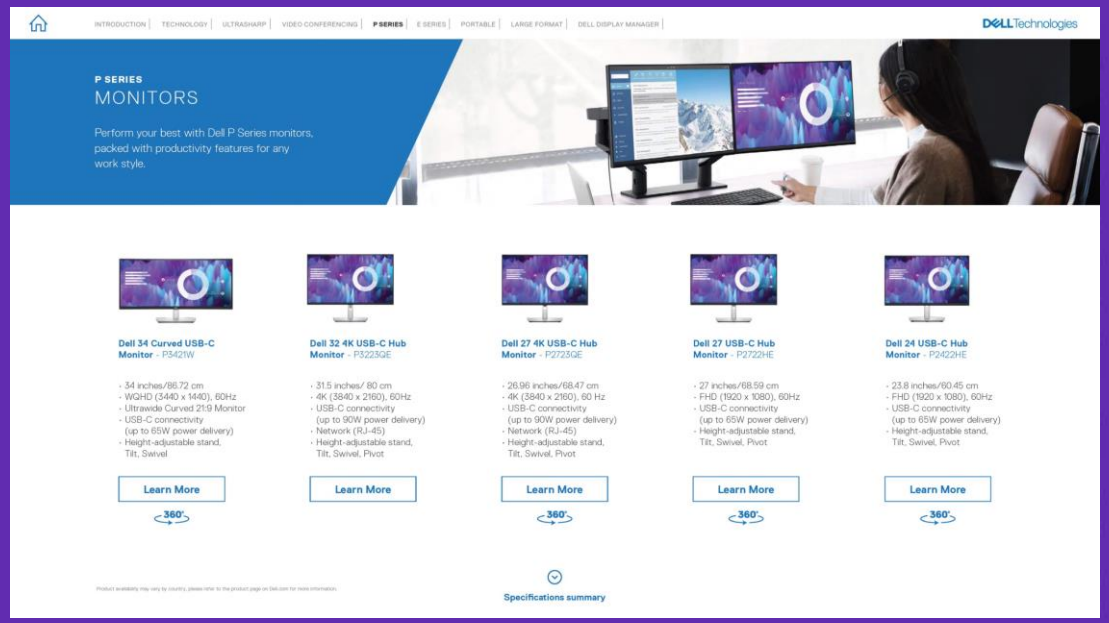
SEE EVERYTHING.
DO **ANYTHING.**

Dell monitors are #1 Worldwide for 8 consecutive years (2014 to 2021)!*

Maximize remote work productivity with Dell Monitors

*Source: IDC Worldwide Quarterly PC Monitor Tracker, Q4

COMMERCIAL MONITOR E-GUIDE



	Dell 27 Monitor - P2722H	Dell 24 Monitor - P2422H	Dell 23 Monitor - P2319H	Dell 22 Monitor - P2222H	Dell 24 Touch Monitor - P2418HT
VIEWABLE IMAGE SIZE	27 inches/68.59 cm	23.8 inches/60.45 cm	23 inches/58.42 cm	21.5 inches/54.61 cm	23.8 inches/60.47 cm
MAXIMUM RESOLUTION	FHD (1920 x 1080), 60Hz	FHD (1920 x 1080), 60Hz	FHD (1920 x 1080), 60Hz	FHD (1920 x 1080), 60Hz	FHD (1920 x 1080), 60Hz
ASPECT RATIO	16:9	16:9	16:9	16:9	16:9
PANEL TYPE, SURFACE	In-Plane Switching (IPS) technology, Anti-glare	In-Plane Switching (IPS) technology, Anti-glare	In-Plane Switching (IPS) technology, Anti-glare	In-Plane Switching (IPS) technology, Anti-glare	In-Plane Switching (IPS) technology, Anti-glare
CONNECTIVITY	· 1 x HDMI (HDCP 1.4) · 1 x DP 1.2 (HDCP 1.4) · 1 x VGA · 1 x USB 3.0 Type B · 2 x USB 3.2 Gen1 Type A downstream · 2 x USB 3.2 Gen1 Type A downstream (bottom QA)	· 1 x HDMI (HDCP 1.4) · 1 x DP 1.2 (HDCP 1.4) · 1 x VGA · 1 x USB 3.0 Type B · 2 x USB 3.2 Gen1 Type A downstream · 2 x USB 3.2 Gen1 Type A downstream (bottom QA)	· 1 x HDMI (HDCP 1.4) · 1 x DP 1.2 (HDCP 1.4) · 1 x VGA · 1 x USB 3.0 Type B · 2 x USB 2.0 Type A downstream · 2 x USB 3.0 Type A downstream (side QA)	· 1 x HDMI (HDCP 1.4) · 1 x DP 1.2 (HDCP 1.4) · 1 x VGA · 1 x USB 3.0 Type B · 2 x USB 3.2 Gen1 Type A downstream · 2 x USB 3.2 Gen1 Type A downstream (bottom QA)	· 1 x HDMI (HDCP 1.4) · 1 x DP 1.2 (HDCP 1.4) · 1 x VGA · 1 x Audio line-out · 1 x USB 3.0 Type B · 2 x USB 2.0 Type A downstream · 2 x USB 3.0 Type A downstream (bottom QA)
DESIGN FEATURES					
ADJUSTABILITY	Height-adjustable stand (up to 150 mm), Tilt (-5° to 21°), Swivel (-45° to 45°) and bi-directional pivot (-90° / 90°)	Height-adjustable stand (up to 150 mm), Tilt (-5° to 21°), Swivel (-45° to 45°) and bi-directional pivot (-90° / 90°)	Height-adjustable stand (up to 130 mm), Tilt (-5° to 21°), Swivel (-45° to 45°) and bi-directional pivot (-90° / 90°)	Height-adjustable stand (up to 150 mm), Tilt (-5° to 21°), Swivel (-45° to 45°) and bi-directional pivot (-90° / 90°)	Articulating stand: Swivel (-30° to 30°), Tilt (5° / 60°), Height (up to 90 mm).
OTHER	TÜV-certified ComfortView Plus and Flicker-free.	TÜV-certified ComfortView Plus and Flicker-free.	TÜV-certified ComfortView Plus and Flicker-free.	MST, DPBS, TÜV-certified ComfortView Plus and Flicker-free.	10-point touch feature, Advanced In-Cell Touch technology, TÜV-certified ComfortView and Flicker-free.

Commercial-monitor E- guide

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Client Peripherals
The Opportunity

Customer requirements for Hybrid Working

1 How you enable workforce to be more productive?

A wireless keyboard and mouse improves ergonomics/comfort for fast and efficient data entry

A wireless mouse ensures users stay productive wherever they are

2 How do you keep workforce connected?

Docks support single USB-C cable connectivity for fast, efficient connection to monitors and peripherals while delivering power to the notebook

Enhance connectivity when mobile using a multi- port adapter or adapter

3 How do you help workforce to collaborate effectively?

A webcam delivers high quality video to maintain the personal aspect of a face-to-face conversation

A headset and/or speakerphone offers clear audio to help users stay focused on conversation and collaborate from anywhere

4 How do you help users keep their device protected?

A case can protect the device when not in use when remote and when travelling to the office, or moving from location to location

Locks ensure security of the device, and the data on that device when left unattended

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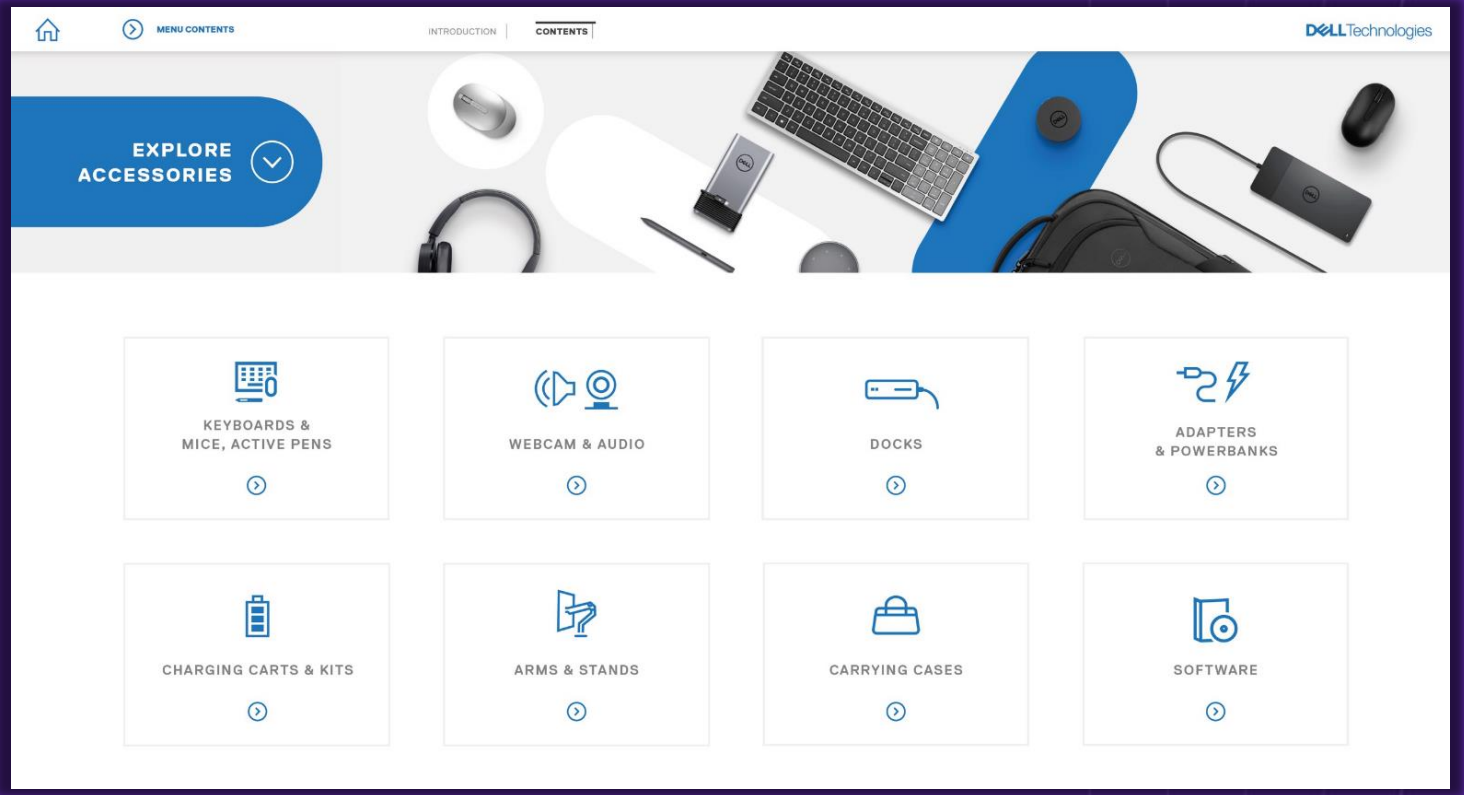
CLIENT PERIPHERALS INTERACTIVE E-GUIDE



- Interactive guide for all CP categories (8 categories)
- Target refresh – Quarterly
- Avail in 12 localized languages

<u>8 Chapters:</u>

1) Keyboards, Mice & Active Pens
2) Webcams & Audio
3) Docks
4) Adapters & Powerbanks
5) Charging Carts & kits
6) Arms & Stands
7) Carrying Cases
8) Software

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