Dell Client Community Precision Mobile Workstations Webinar

Precision Product Marketing
August 25th, 2022

DELLTechnologies

2022 Mobile Workstations

If you hear any of these hot-button phrases, think "Precision" workstations ...

- *"More processing power ..."*
- *"More CPUs, cores, memory ..."*
- *"RAID storage ..."*
- *"Reliability ..."*
- *"Scalability ..."*

- *"Professional graphics ..."*
- *"Multiple displays ..."*
- *"OpenGL ..."*
- *"GPUs ..."*
- *"ISV Certification ..."*

- *"Simulations ..."*
- *"High-resolution graphics ..."*
- *"ECC (Error-correcting code memory) ..."*
- *"Artificial intelligence ..." (or "AI ...")*
- *"Virtual reality ..." (or "augmented reality ...")*

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Dell Precision
Mobile Workstation Portfolio

25TH ANNIVERSARY — DELL PRECISION

	3470	3570	3571	5470	5570	5770	7670	7770
	Entry-level 14"	**Low Price / light 15"**	**Best Price / performance 15"**	**Power-packed 14" thin and light**	**Beautiful thin and light 15"**	**Thin and light 17"**	**Most powerful and scalable 16"**	**Most powerful and scalable 17"**
Descriptions	Small, thin and powerful with entry-level scalability.	Light weight, value workstation with entry-level scalability and performance.	Light weight, value workstation with entry to moderate scalability and performance.	World's smallest, thinnest, & most powerful 14" mobile workstation.	Class leading size and weight for 15" workstation, with moderate scalability and performance.	Thin and light 17" workstation with moderate to high-end scalability and performance.	Our most scalable and highest performing mobile workstations, available in two sizes.	
Recommended use cases	Great for Office power users, hybrid offices and students. Light 2D/ entry 3D CAD. Use cases: business and remote office applications (Zoom, TEAMS), financial analysts, 2D CAD personnel.	Great for light 2D/ entry 3D CAD heavy Excel. Use cases: architects, financial analysts, students CAD personnel and engineers.	Great for medium 2D/ light 3D CAD, CAM, heavy Excel, compilers. Use cases: architects, engineers, software developers and CAD personnel.	Great for graphic design, animation, video and photo editing, CAD and CAM. Use cases: architects, engineers, video editors, animators, photographers, graphic designers.	Great for graphic design, animation, video and photo editing, CAD and CAM. Use cases: architects, engineers, video editors, animators, photographers, graphic designers.	Great for graphic design, animation, video and photo editing, CAD and CAM VR and AI workloads. Use cases: architects, engineers, video editors, animators, photographers, graphic designers, VR and AI users.	Great for VR/ AR and AI applications, CAE and other complex apps. Use cases: engineers, creators, geophysicist, gaming developers and scientists, animators, graphic designers and users of heavy compute applications.	Great for VR/AR and AI applications, CAE and other complex apps. Use cases: engineers, creators, geophysicist, gaming developers and scientists, animators, graphic designers and users of heavy compute applications.

	3470	3570	3571	5470	5570	5770	7670	7770
Processor (up to)	Intel® Core™ i7, P28W, 12 (4P+8E) cores	Intel® Core™ i7, P28W, 14 (6P+8E) cores	Intel® Core™ i9, H45W, 14 (6P+8E) cores	Intel® Core™ i9, H 45W 14 (6P+8E) cores	Intel® Core™ i9, 14 (6P+8E) cores	Intel® Core™ i9, 14 (6P+8E) cores	Intel® Core™ i9, HX 55W, 16 (8P + 8E) cores	Intel® Core™ i9, HX 55W, 16 (8P + 8E) cores
Graphic card (up to)	NVIDIA T550 (4GB)	NVIDIA RTX™ A500 (4GB)	NVIDIA RTX™ A2000 (8GB)	NVIDIA RTX™ A1000 graphics (4GB)	NVIDIA RTX™ A2000 (8GB)	NVIDIA RTX™ A3000 (12GB)	NVIDIA RTX™ A5500 (16GB)	NVIDIA RTX™ A5500 (16GB)
Memory (up to)	64GB, DDR5 4800MHz, non-ECC	64GB, DDR5 4800MHz, non-ECC	64GB, DDR5 4800MHz, non-ECC	64GB DDR5 5200MHz, non-ECC	64GB, DDR5 4800MHz, non-ECC	64GB, DDR5 4800MHz, non-ECC	128GB, 4800MHz, optional ECC	128GB, 4800MHz, optional ECC
Storage (up to)	2TB	4TB	4TB	4TB	8TB	8TB	12TB	16TB
Display (up to)	14" FHD, PremierColor. Touch and ComfortView Plus options	15.6" UHD, PremierColor, optional Touch and ComfortView Plus	15.6" UHD, PremierColor, optional Touch and ComfortView Plus	14" InifintyEdge 16:10 display with HDR400 with Touch, Pen and ComfortView Plus options	15" InifintyEdge 16:10 display with HDR400 with Touch, ComfortView Plus options	17" InifintyEdge 16:10 display with HDR400 with Touch, ComfortView Plus options	16", narrow bezel 16:10 OLED display with HDR500, PremierColor, Touch and ComfortView Plus options	17.3" 16:9 display with HDR500, PremierColor, ComfortView Plus options
Width	12.65" / 321.35 mm	14.09"/ 357.8 mm	14.09"/ 357.8 mm	12.2"/ 310 mm	13.56"/ 344.4 mm	14.74"/ 374.48 mm	14.2"/ 356 mm	15.67"/ 398 mm
Depth	8.35" / 212 mm	9.29"/ 236.2 mm	9.19"/ 233.3 mm	8.26"/ 210 mm	9.07"/ 230.3 mm	9.77"/ 248.08 mm	10.18"/ 258 mm	10.44"/ 265 mm
Height	.82"/20.95 mm, 0.92"/23.60 (rear)	0.82"/20.77 mm (front), 0.95"/24.05 mm (rear)	0.89"/22.7 mm (front), 0.95"/24.05 mm (rear)	.75"/18.95mm (front), .44"/11.09mm (rear)	.30"/17.6 mm (front), .46"/11.65 mm (rear)	.34"/8.67 mm (front), .52"/13.15 mm (rear)	22.3 mm (front), / 23.2 mm (rear)	1.03"/25.95 mm (front), 1.06"/ 26.7 mm (rear)
Starting weight	3.30 lbs / 1.49kg	3.5 lbs / 1.59 kg	3.94 lbs / 1.79 kg	3.26 lbs / 1.48kg	4.06 lbs / 1.84 kg	4.7 lbs / 2.13 kg	5.75lb/ 2.6kg	6.65 lbs / 3.01 kg

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Precision 3470

D&LL Technologies

Perfectly sized

Introducing Dell's smallest and most affordable entry mobile workstation, the Precision 3470. 14" display balances portability, functionality and value. ~10% smaller vs Dell's entry 15" 3570 and 3571 workstations and 6-16% lighter

Scalable, mobile power

The Precision 3470 packs a punch thanks to thermal innovations (DOO), the latest Intel Alder Lake P-28 i5 and i7 processors, up to 64GB DDR5 dual-channel memory, and professional NVIDIA T550 graphics

Precision 3470

Enhanced camera and privacy
Up to FHD IR camera with an AI-based proximity sensor, contextual privacy, intelligence noise cancellation with manual privacy shutter; Express Sign-in 2.0

14" display with up to FHD 100% sRGB, 400 nits display
PremierColor, Touch and ComfortView Plus, Low blue light (LBL) and super Low Power (SLP)

CY22 express experiences
Express charge, express sign-in and express power on

WiFi 5/6E
No WWAN option

Pro2 ID keyboard
with optional backlight, no 10 key number pad

Optional smart card reader

Mission critical reliability
ISV certifications provides the piece of mind knowing that Precision has been tested and works with your essential work-place applications + MIL-STD tested

12th Gen Intel Core P28W
ADL i5 vPro, i7 vPro/Trans

Latest professional grade memory, storage, and graphics
Up to 64GB DDR5 NECC
Gen 4 PCIe M.2 SSD (single slot storage, up to 2TB)
NVIDIA T550 (4GB)

Advanced thermal management*
Industry leading workstation thermals: single-fan Dual Opposite Outlet (DOO), and User Selectable Thermal Tables (USTT)

Optional Finger Print Reader integrated with power button
Windows Hello capable

4 cell 64WHr battery
Express Charge 1.0
Standard and Long-lifecycle
90W or 130W adaptor options

Starting weight: 3.3 lbs / 1.49 kg

Dell Optimizer for Precision 3.0
Launch apps faster, maximize battery life, enhance conferencing collaboration. Workstation storage optimization & Advanced Analytics

Glass-like click-pad
Glass-like click-pad for enhanced texture / responsiveness (not pictured)

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Precision 3570

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Precision 3570

Enhanced camera and privacy
Up to FHD IR camera with an AI-based proximity sensor, contextual privacy, intelligence noise cancellation with manual privacy shutter

15" display with up to UHD (4K) 100% sRGB, 400 nits
PremierColor, Touch and ComfortView Plus, Low blue light (LBL) and super Low Power (SLP)

CY22 express experiences
Express charge, performance discharge, express sign in and express power on
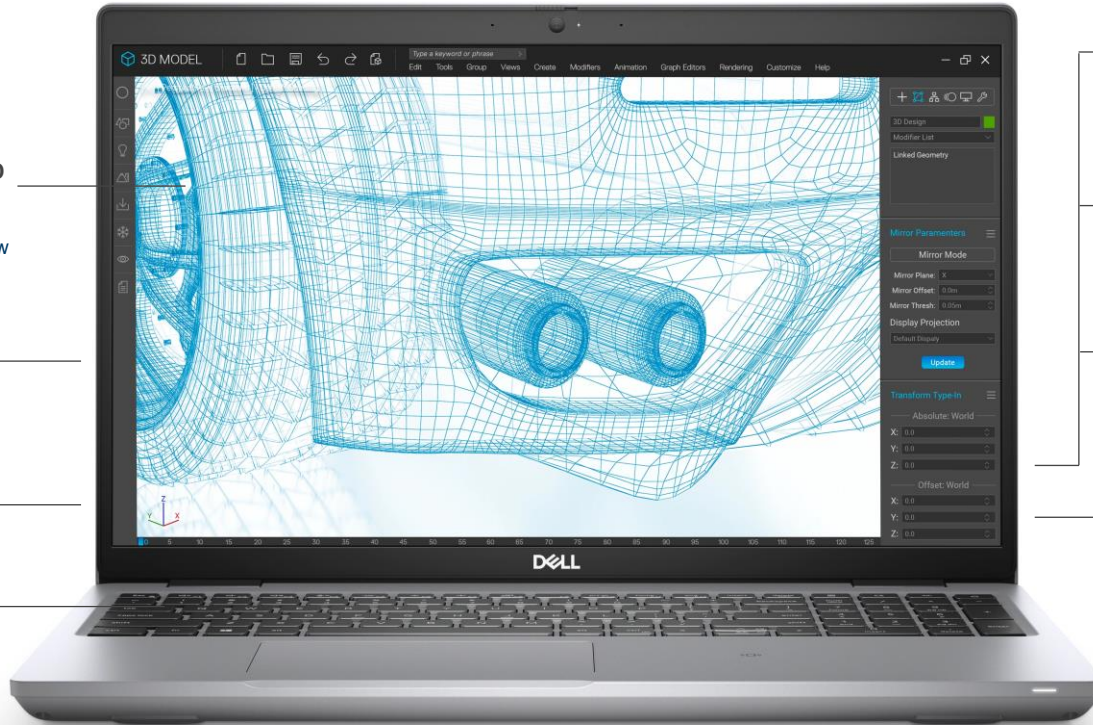
Up to WIFI 6E and Optional 4G WWAN

Pro2 ID full-size keyboard
with optional backlight

Optional Smart Card Reader and Finger Print Reader (FPR)
FPR integrated with power button Windows Hello capable

12th Gen Intel Core U15W or P28W
i5 vPro/Trans, i7 vPro/Trans

Latest professional grade memory, storage, and graphics
• Up to 64GB DDR4 or DDR5 NECC
• Gen 4 PCIe M.2 SSD (up to 4TB)
• NVIDIA T550 and RTX A500

Advanced thermal management
Industry leading thermals: single-fan Dual Opposite Outlet (DOO), larger fan-size, and User Selectable Thermal Tables (USTT)

Mission critical reliability
ISV certifications provides the piece of mind knowing that Precision has been tested and works with your essential workplace applications + MIL-STD tested

Up to 4 cell 58Wh battery
Express Charge 1.0
(80% in 1 hr, 35% in 20 min)
90W or 130W adaptor options

Starting weight: 3.5 lbs / 1.6 kg

Glass-like Click pad
Glass-like click pad for enhanced texture / responsiveness (not pictured)

Expansion of recycled and renewable plastics content*

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Precision 3571

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Precision 3571

Enhanced camera and privacy
Up to FHD IR camera with an AI-based proximity sensor, contextual privacy, intelligence noise cancellation with manual privacy shutter

15" infinity display with up to UHD (4K) 100% sRGB, 400 nits
PremierColor, Touch and ComfortView Plus, Low blue light (LBL) and super Low Power (SLP)

CY22 express experiences
Express charge, performance discharge, express sign in and express power on

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

Pro2 ID full-size keyboard
with optional backlight

Optional smart card reader

Mission critical reliability
ISV certifications provides the piece of mind knowing that Precision has been tested and works with your essential work-place applications + MIL-STD tested

12th Gen Intel Core H45W
i5 vPro/Trans, i7 vPro/Trans, i9 vPro

Latest professional grade memory, storage, and graphics
• Up to 64GB DDR5 NECC
• Gen 4 PCIe M.2 SSD (up to 4TB); 2.5" HDD options
• NVIDIA T600, RTX A1000 and NVIDIA RTX A2000 **8GB**

Advanced thermal management
Industry leading thermals: single-fan Dual Opposite Outlet (DOO), and User Selectable Thermal Tables (USTT)

Optional Finger Print Reader integrated with power button
Windows Hello capable

Up to 6 cell 97Wh battery
Express Charge 1.0
90W or 130W adaptor options

Glass-like click pad
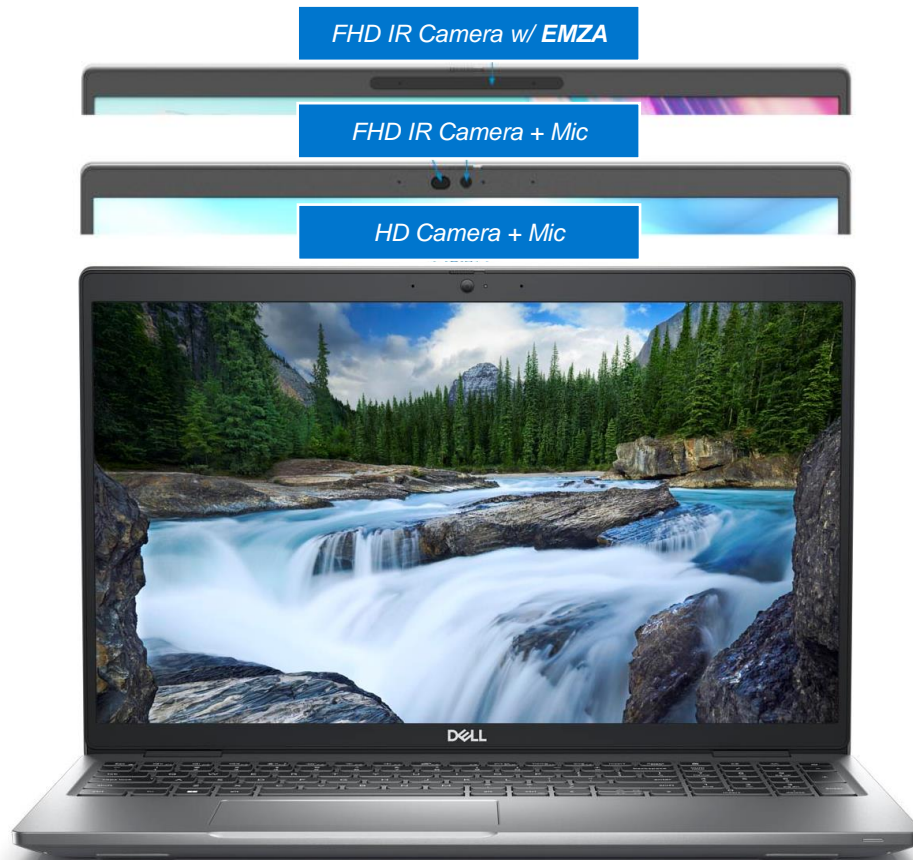Mylar glass-like click pad for enhanced texture / responsiveness (not pictured)

Starting weight: 3.94 lbs / 1.79 kg

Investment in camera technology

New AI enabled proximity sensor (EMZA) – optional with FHD IR cameras

Enables more intelligent sensing and an improved customer experience:

➢ Wake-on-Approach (WOA) and Walk-Away-Lock (WAL) function support (*Meaning faster and smarter adaption to waking up when end-user approached (Express Sign-in 2.0 through Dell Optimizer)*)

➢ Contextual privacy – will warn if detects others looking over shoulder or looking at screen from the side

➢ End-user gaze tracking (dim screen when not engaged for set time periods – power saving)

FHD IR Camera w/ *EMZA*

FHD IR Camera + Mic

HD Camera + Mic

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Dell's most sustainable mobile workstations

Leading Position

The Precision 3000 Series contains the **highest amount of recycled materials of all of Dell's mobile workstations -** keeping waste out of landfill

Sustainable Materials

Precision 3570 mobile workstations contain up to **28% recycled/renewable plastics** (12% total weight) and 100% water borne paint

Packaging Innovation

Inclusion of sustainable initiatives outside of the product to include new **bulk packaging** (cut down on number of boxes) and new **premium packaging options** (100% recycled materials)

71% + 50% + 46% + 28% = 28%

Total sustainable materials in the **covers** *(21% bioplastics)*

Post-Consumer Recycled (PCR) plastics in battery and adaptor cases

Bioplastics in the feet

PCR in the fan housing

Recycled or renewable plastics (Precision 3570)

EPEAT **GOLD**

TCO 9

Energy Star

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Precision 5000-Series Mobile Workstations

Albert Scovel
Precision Product Manager

DELLTechnologies

CY22 Precision Mobile Workstation Portfolio

New!

New!

Precision 3470	Precision 3570	Precision 3571	Precision 5470	Precision 5570	Precision 5770	Precision 7670	Precision 7770
3000 Series			**5000 Series**			**7000 Series**	
14" entry mobile workstation focused on affordable, highly mobile performance	15" value workstation focused light weight and compact form factor with minimal scalability	15" entry workstation with increased CPU and graphics performance, moderate scalability	World's smallest & most powerful 14" mobile workstation	World's thinnest & smallest 15" mobile workstation	World's thinnest & smallest 17" mobile workstation	Premium industrial design with investments in high end materials and finishes for a thinner, lighter, better looking mobile workstation. High performance, scalable feature set, best in class customer experience	
Highest growth segment within mobile workstations – most mobile value workstation	Focused on competing in lower price bands and attracting non-workstation users into the MWS market	High growth segment driven by best price for performance. Secure low margin customers from 7000s.	For highly mobile professionals requiring a compact mobile workstation that doesn't sacrifice performance	Lighter alternative to mainstream 15 mobile systems	For users who want a thin & light mobile workstation but still want a 17" screen with mainstream performance.	Largest segment of the market driven by users migrating from fixed workstations and larger 17" mobile workstations	For users that require uncompromised fixed workstation class CPU and GPU performance in a mobile form factor

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Precision **5470**

Introducing the world's smallest, thinnest and most powerful 14" workstation

STARTING AT ~3.26LBS / 1.48KG

Intelligent performance

+ Intel Core i9, (6P+8E) cores (45W), NVIDIA RTX A1000 graphics, up to 64GB of 5200MHz DDR5, M.2 SSD with PCIe Gen 4 support (4TB), (4) Thunderbolt 4

+ Dell Optimizer for Precision

Mission critical reliability

+ ISV Certifications

+ MIL-STD tested

+ Advanced thermals

+ Long battery life option

User experience

+ Large touchpad, IR camera with proximity and ambient light sensor, Windows Hello, dual mics, 4 speakers

+ 14" InfinityEdge 16:10 display (91% screen:body ratio), up to QHD+ with pen/touch, 72% Adobe, 500nits, PremierColor, with ComfortView Plus

+ Intel WiFi 802.11ax 6E, BT 5.2

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Impressively powerful

The powerhouse Precision 5470 packs a punch thanks to new thermal innovations that enable the pinnacle of performance.
Designed to run intensive programs without skipping a beat. Bigger, better fans improve airflow, dissipate heat, and keep the system cool.

Precision **5570**

The smallest & thinnest
15" workstation with AI-based
optimization

STARTING AT ~4LBS / 1.84KG

Intelligent performance

+ Up to Intel Core i9, 14 (6P+8E) core (45W), vPro options, up to NVIDIA RTX A2000 8GB graphics (40W), Gen4 M.2 SSD (4TB), RAID support, up to 64GB of 4800MHz memory DDR5, (2) Thunderbolt 4 (with power-in), Type C USB 4

+ Dell Optimizer for Precision

Mission critical reliability

+ ISV Certifications

+ MIL-STD tested

+ Advanced thermals

Immersive productivity and design

+ Backlit keyboard, large touchpad, proximity sensor, intrusion sensor

+ 16:10 InfinityEdge display, up to HDR400 UHD+, 100% sRGB & 99% DCI-P3, 500nits, PremierColor, with ComfortView Plus, Touch options

+ Intel WiFi AX211/BT5.2/vPro, Active steering antennae

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Precision **5770**

The smallest, thinnest
& lightest 17" workstation with AI-based
optimization

STARTING AT ~4.7LBS / 2.13KG

Intelligent performance

+ Up to Intel Core i9, 14 (6P+8E) core (45W), up to NVIDIA RTX A3000 12GB graphics (60W), Gen4 M.2 SSD (8TB), RAID support, up to 64GB of 4800MHz DDR5 memory, (4) Thunderbolt 4 (with power-in)

+ Dell Optimizer for Precision

Mission critical reliability

+ ISV Certifications

+ MIL-STD tested

+ Advanced thermals

Immersive productivity and design

+ Backlit keyboard, large touchpad, proximity sensor, intrusion sensor

+ 16:10 InfinityEdge display, up to HDR400 UHD+, 100% sRGB & 99% DCI-P3, 500nits, PremierColor, with ComfortView Plus, Touch options

+ Intel AX211 WiFi 6 /BT5.2/vPro, Active steering antennae

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Precision 7000-Series Mobile Workstations

Alex Tyltin
Precision Product Manager

DELLTechnologies

Precision 7670

Powerful yet totally portable

Choose between two 16-inch workstation chassis – a slimline and performance version.
Key tenets of the design were no-sacrifice performance and complete portability.

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Improved Front of Screen Experience

7560 (15.6") VS. 7670 (16.0")

	X-ID	Y-ID	Z-ID
Precision 7560 – 15.6" (16:9)	360	247	27.55

	X-ID	Y-ID	Z-ID
Precision 7670 - 16" (16:10)	356	258	23.75

~ 16.4 mm

~ 7.25 mm

~ 32.5 mm

76.2%
Screen-to-body ratio

~11.6 mm
−4.8 mm

~5.7 mm
−1.5 mm

~21.5 mm
−11 mm

82%
Screen-to-body ratio

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Precision 7560 (predecessor)
15.6" 16:9 screen

Precision 7670
16.0" 16:10 screen

Dive into an immersive screen

With 11% more viewable screen area on the 16-inch system (7670), users will dive into an unbelievable, immersive experience.

Precision 7670

New industrial design
- 15% Z height reduction vs. predecessor
- Thin or Performance D-covers
- New sequential hinge design
- Premium materials and finishes

Best in class front of screen experience
- 11% more viewable area with new 16.0" 16:10 displays
- 8% increase in screen to body ratio
- 120 additional horizontal rows of pixels
- Significant border reduction - 34% bottom, -29% top, -21% l/r
- OLED UHD+ 4K display
- Native (LBL) low blue light support

Best in class performance density
- 25% performance density increase vs. predecessor
- Intel Alder Lake HX-55W CPUs
- Next gen NVIDIA GPUs
- ~15% memory bus performance using CAMM technology
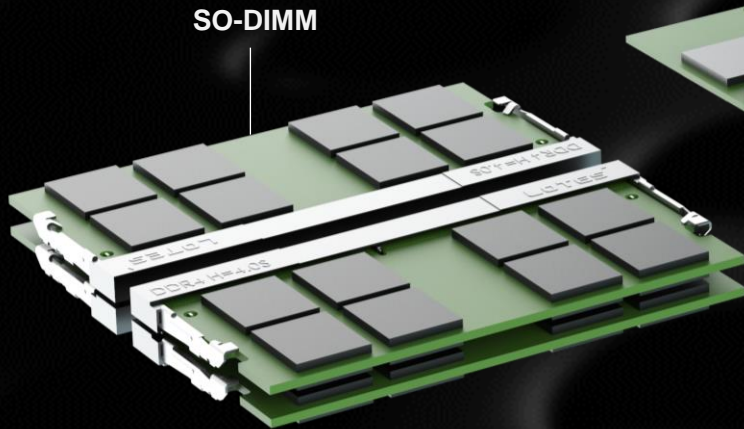- All flash storage with RAID support

Improved user experience
- New pro 2.5 keyboard
- 30% larger click pad
- IR FHD camera with high wavelength IR LEDs, integrated privacy shutter, contextual privacy
- Express charge 2.0, performance discharge, express sign in and power on
- 25% smaller AC adapter
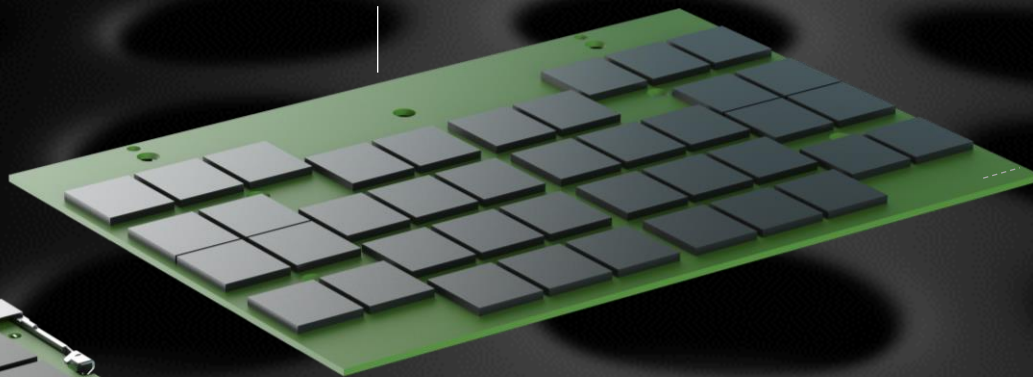- Starting at ~5.49lbs/2.49 kg

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SO-DIMM vs. CAMM
Difference of physical dimension

CAMM

SO-DIMM

SO-DIMM memory mounted on both sides of MB
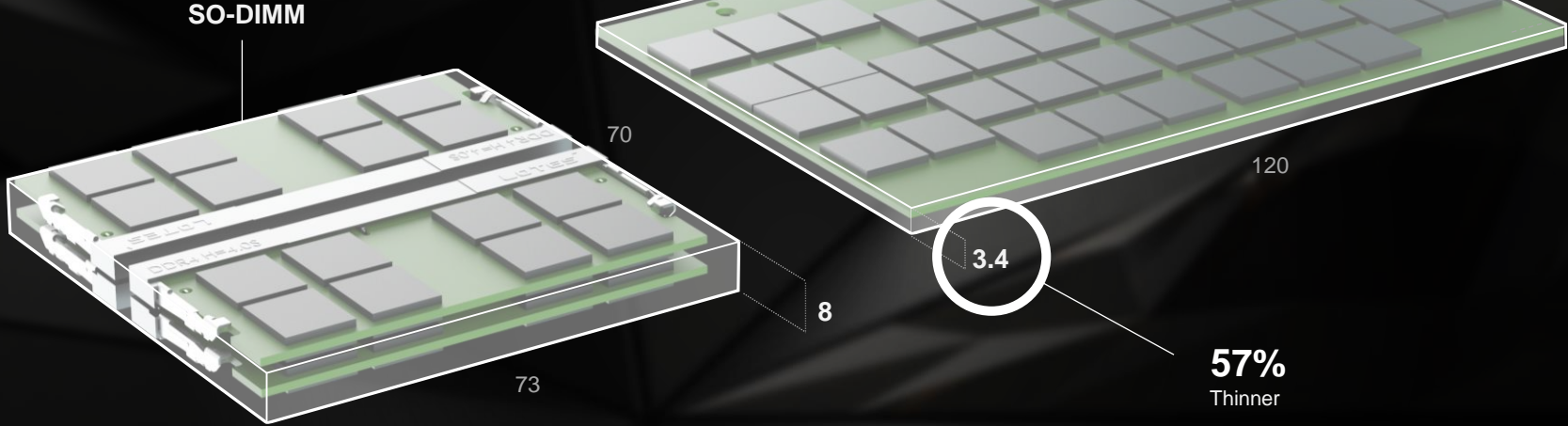to support 128G memory by 32G DDR4 cards x 4

CAMM memory mounted on one side of MB
supports 128G memory

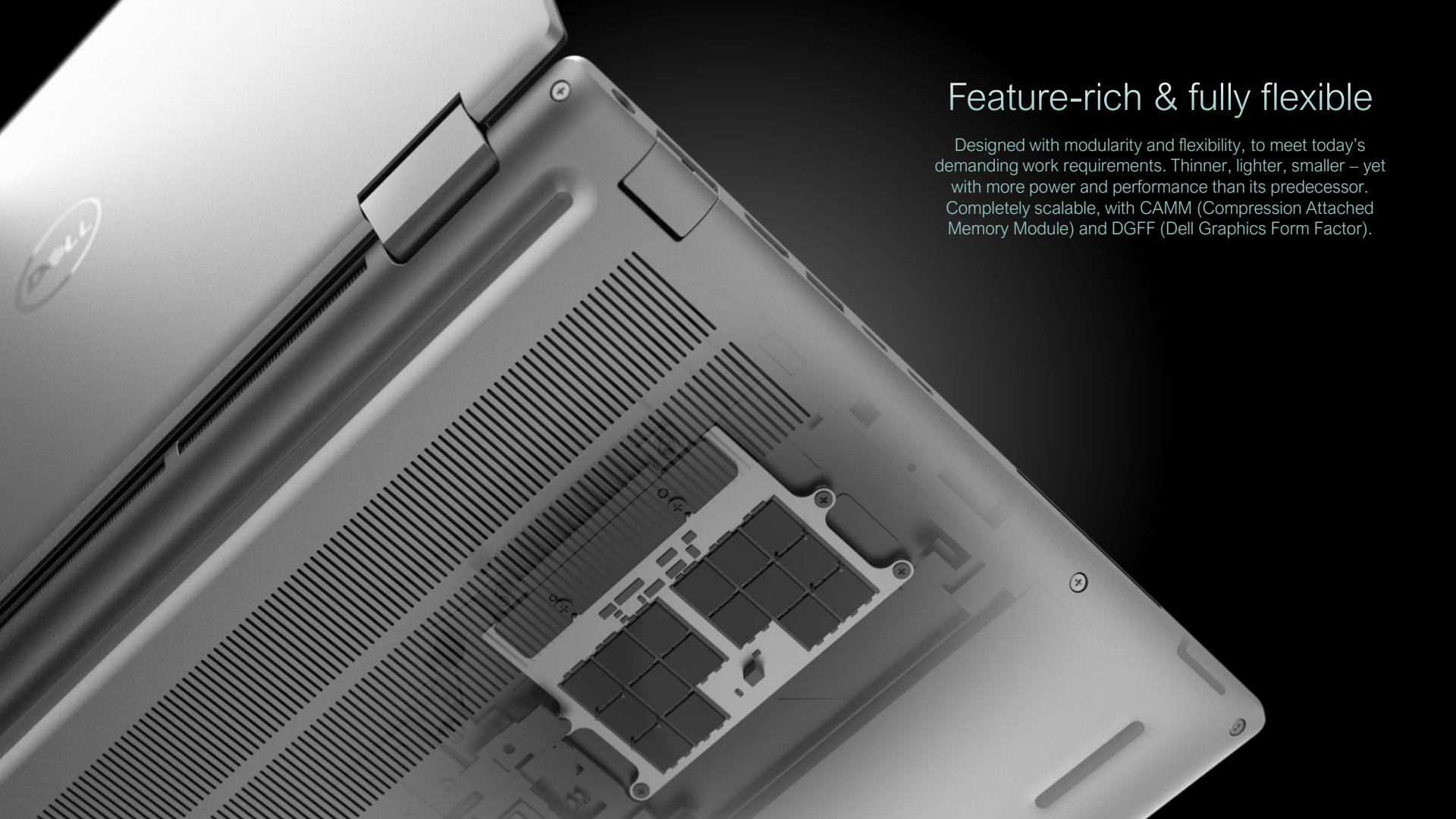**CAMM = Compression Attached Memory Module**

SO-DIMM vs. CAMM
Difference of physical dimension

CAMM

81

120

SO-DIMM

70

73

8

3.4

57%
Thinner

Comparing to traditional
SO-DIMM memory

SO-DIMM memory mounted on both sides of MB
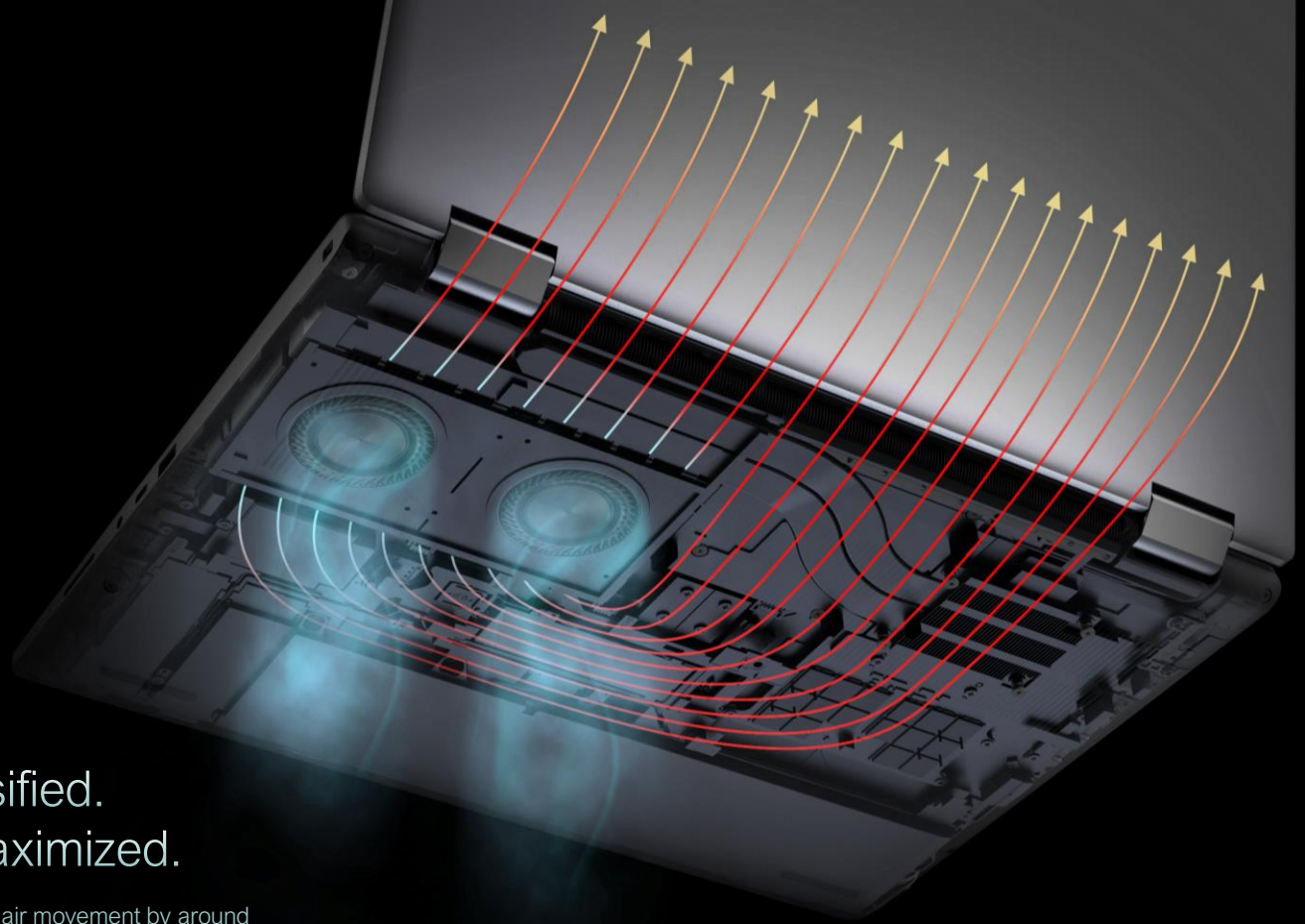to support 128G memory by 32G DDR4 cards x 4

CAMM memory mounted on one side of MB
supports 128G memory

Feature-rich & fully flexible

Designed with modularity and flexibility, to meet today's demanding work requirements. Thinner, lighter, smaller – yet with more power and performance than its predecessor. Completely scalable, with CAMM (Compression Attached Memory Module) and DGFF (Dell Graphics Form Factor).

Power intensified.
Performance maximized.

DOO (Dual Opposite Outlet) fans boost air movement by around 30% and keep the system cool to the touch. A vapor chamber spanning the width of the workstation dissipates heat and helps achieve higher turbo power.

Precision 7770

- Intel Alder Lake HX-55W CPUs
- ~15% memory bus performance using CAMM technology
- Next generation NVIDIA GPUs
- New sequential hinge design
- New pro 2.5 keyboard
- 30% larger click pad
- 36% smaller AC adapters
- IR FHD camera with high wavelength IR LEDs, integrated privacy shutter, contextual privacy
- Express charge 2.0, performance discharge, express sign in and power on

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Precision 7670 vs 7770

	7670	**7770**
XYZ	356 x 256 x 23.7mm - Thin 356 x 256 x 26.7mm - Performance	398 x 265 x 27.9mm
WEIGHT	5.5 lbs./2.49kg - target	6.6 lbs./3.01kg - target
SCREEN ASPECT RATIO	16:10	16:9
CMF	Aluminum, CFRP, Titan Gray bead blast	Aluminum, CFRP, Titan Gray bead blast
SYSTEM TDP	100W Thin 140W Performance	165W
PERF DENSITY (W/m³)	71 Thin (+10% vs predecessor) 83 Performance (+29% vs predecessor)	82.5 (+27% vs predecessor)
PROCESSOR	Intel 12th Gen Core i5/i7/i9 HX 55W	Intel 12th Gen Core i5/i7/i9 HX 55W
MEMORY	Up to 128GB – via CAMM 2 SODIMM support for 16/32/64GB configurations	Up to 128GB – via CAMM 2 SODIMM support for 16/32/64 configurations
GRAPHICS	Intel UMA NVIDIA RTX A1000-RTX5000 (80 Watts – 90 Watts) NVIDIA RTX 3080 follow-on (90 Watts)	Intel UMA NVIDIA RTX A1000-RTX5000 (80 Watts – 125 Watts) NVIDIA RTX 3080 follow-on (125 Watts)
STORAGE	2x M.2 2280 slots Thin, 3x M.2 2280 slots Performance	4x M.2 2280 slots
BATTERY	83/93 Whr	83/93 Whr
PANEL	16.0" 16:10 250 Nits 16.0" 16:10 IPS FHD DCI-P3 LBL 16.0" 16:10 UHD OLED Touch LBL	17.3" FHD DCI-P3 LBL 500nits 17.3 IPS UHD 99% DCI-P3 LBL HDR400 500nits
WIRELESS	WIFI 6E R2 / 5G LTE	WIFI 6E R2 / 5G LTE
PORTS	1x SD; 2x TBT4 type C; 1 x USB type C; 2 x USB 3.0 type A (1 with PowerShare); 1 x HDMI; 1 x Headphone and microphone combo jack; RJ45; 1 x SmartCard Reader, chassis intrusion switch	1x SD; 2x TBT4 type C; 1 x USB type C; 2 x USB 3.0 type A (1 with PowerShare); 1 x HDMI; 1 x Headphone and microphone combo jack; RJ45; 1 x SmartCard Reader, chassis intrusion switch