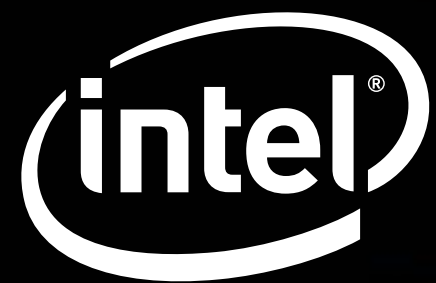# Energy in the Modern Era

With renewable energy taking center stage, geologists are exploring new ways of making effective and compliant use of diminishing natural energy. This research demands rapid data workflows, 3D mapping and VR imaging, and Energy companies need powerful and portable workstations that deliver crystal-clear imaging with the strength to withstand the rigors of onsite working.

**See the most common industry workflows below.**

# Interpretations Workflow

As a geologist/geophysicist, your work requires you to go beyond traditional tasks and perform advanced workflows. As part of a robust and integrated 3D geological interpretation solution. This enables you to capture best practices and share them across your organization.

Dell Precision workstations provide the latest industry enhancements, increasing performance and productivity by accelerating access to complex and large workflows.

## HALLIBURTON/LANDMARK

DSG 10ep

### Challenges

Incorporating new technologies such AR/VR/AI to enhance workflows

## SCHLUMBERGER

Petrel

### Challenges

Accelerating time to market for new/legacy applications and products

## IHS MARKIT

Kingdom

### Challenges

Transforming legacy infrastructure to modern platforms for lower TCO and greater business agility

## See Dell solutions below:

Interpretations

AI Data Science

# Interpretations Fixed Solution

## Precision 7920 Tower

_____

Dell Precision workstations provide extreme performance, enabling high-end graphic visualization, interpretation and simulation for modeling and analysis.



**Max performance. Superior scalability.**
The new Precision 7920 Tower provides ultimate performance and scalability to grow alongside your vision.

- CPU: Dual Intel® Xeon® Platinum
- Memory: 128GB 2933MHz
- Storage: 2 X 1TB NVMe Class 50
- Graphics: NVIDIA® RTX™ 5000/6000/8000
- VR/AR Headset

**Adapts to your innovations.**
Your Precision 7920 Tower is ready for complex projects, including virtual reality workflows, with the next generation AMD Radeon Pro™ and highest-performing NVIDIA® Quadro™ graphics.

**HTC Vive Pro Eye™**
Use virtual reality to train employees and collaborate on predictive/bid data analytics.

**Dell Wireless Premium Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

**Dell UltraSharp Ultra HD 4K Monitor with PremierColor | UP3216Q**
The perfect display for ideal color coverage and incredible clarity on color-critical projects.

# Interpretations Mobile Solution

## Precision 7550/7750

Dell Precision workstations provide the extreme performance to enable high end graphic visualization, interpretation and simulation for modeling and analysis.

**Unleash peak performance.**
Put performance where you need it most. VR and AI-ready, this high performance 17" mobile workstation features the latest processors, next-gen graphics and more. Featuring the latest 8th Gen Intel® Core™ and Xeon® 6/8 Core processors.

- CPU: Intel® 6/8 Core™ i7, i9, Xeon
- Memory: 32/128GB 2933MHz
- Storage: 2 X 1TB NVMe Class 50
- Graphics: NVIDIA® RTX™ 5000
- VR/AR Headset

Redefine reality and create fully-immersive AR and VR content with next-generation NVIDIA® Quadro™ professional graphics and powerful performance normally found only in tower workstations.

**HTC Vive Pro Eye™**
Use virtual reality to train employees and collaborate on predictive/bid data analytics.

**Dell Wireless Premium Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

**Dell Professional Dock | WD19DC**
Dell's most powerful dock* delivers the ultimate productivity experience. Charge your system faster, support up to four 4K displays and connect to your peripherals via a single cable with dual USB-C connectors for up to 230W of power delivery.

*When used with Dell systems with Type-C. Based on Dell internal analysis of competitive products using publicly available data as of February 2019.

**Dell UltraSharp 49 Curved Monitor | U4919DW**
A revolutionary 49" dual QHD curved monitor with ultra wide views, multitasking features and seamless connectivity for an immersive work experience.

# DSG 10ep Workflow

We know lifecycle management is about achieving the best technical, operational, and economic performance for any given asset. Landmark has taken this a step further with a single suite of applications on a single platform. Integrating lifecycle stages lets you work more efficiently in a systematic manner across all domains and every point along the supply chain. ISV-certified and rigorously tested with industry-leading professional applications, Dell's Precision Optimizer ensures you get the most out of your software investment.



## GEOSCIENCE

DSG 10ep

**Challenges/Opportunities**

In asset evaluations, E&P companies are faced with trying to find a solution that enables their asset teams to iteratively collaborate with real-time log data and analytics across both geoscience and engineering workflows.
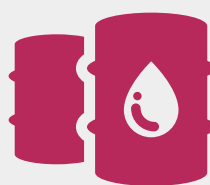
## DRILLING & COMPLETIONS

DSG 10ep

**Challenges/Opportunities**

Dramatically cut costs, yet still maintain performance and productivity.

## PRODUCTION

DSG 10ep

**Challenges/Opportunities**

Production decision makers can solve problems faster by using updated production information with well and network flow models, interactive visualizations, production trending, bubble mapping, and integrated diagnostics workflows.

## PETROPHYSICS

DSG 10ep

**Challenges/Opportunities**

E&P companies need to find a solution that enables asset teams to iteratively collaborate with real-time log data and analytics across both geoscience and engineering workflows while minimizing data loss and corruption.

**See Dell solutions below:**

Value

Premium

AI Data Science

# DSG 10ep
# Value Fixed Solution

## Precision 5820 Tower

————

Dell Precision workstations provide the latest industry enhancements involving direct and third-party technology to increase performance and productivity by accelerating access to complex and large workflows.



**Perfected to your vision.**
Expand your ideas with the Precision 5820 Tower. Featuring high performance in a new innovative, versatile compact design.

- CPU: Intel XEON®
- Memory: 64GB 2933MHz
- Storage: 2 X 1TB NVMe Class 50
- Graphics: NVIDIA® RTX™ 4000/5000/6000

**Adapts to your innovations.**
Your Precision 5820 Tower is ready for complex projects, including virtual reality workflows, with the next generation AMD Radeon Pro™ and highest-performing NVIDIA® Quadro™ graphics.

**Dell UltraSharp 49 Curved Monitor | U4919DW**
A revolutionary 49" dual QHD curved monitor with ultra wide views, multitasking features and seamless connectivity for an immersive work experience.

**Dell Premier Wireless Keyboard and Mouse | KM717**
Enjoy an elegant design that fits into virtually any workspace.

# DSG 10ep
# Value Mobile
# Solution

## Precision 5550/5750

Dell Precision workstations provide the latest industry enhancements involving direct and third-party applications to increase performance and productivity by accelerating access to complex and large workflows.

**Performance for your vision.**
Dell's thin and light 15" and 17" mobile workstations feature next-gen Intel® processors and professional graphics for an immersive work experience and enhanced performance.

**Precision 5550 Mobile Workstation**
- CPU: Intel® Xeon/i7/i9
- Memory: 16/64GB 2933MHz
- Storage: 1 X 1TB NVMe
- Graphics: NVIDIA® T1000/2000

**Show off your work.**
InfinityEdge display with PremierColor ensures brilliant, virtually borderless viewing.

**Stays cool.**
A revolutionary cooling system with dual fans improves airflow and keeps your system cool under heavy workloads.

**Reliable, fast memory.**
Accelerate workflow with up to 64GB of 2933MHz DDR4 memory speeds.

**Quick office integration.**
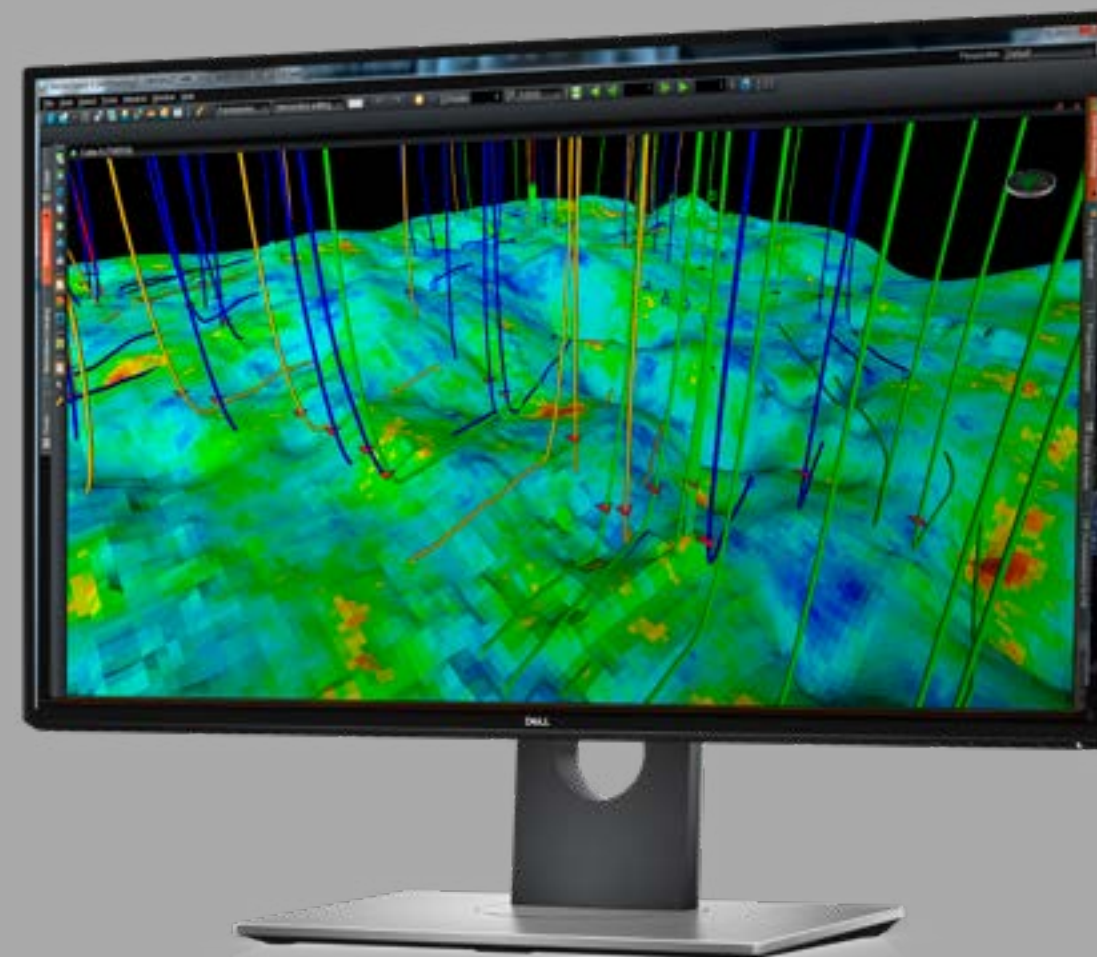Thunderbolt™ 3 Type-C with x4 PCIe and HDMI 2.0 ports enable 4K video connectivity at 60 frames per second.

**Precision 5750 Mobile Workstation**
- CPU: Intel® Xeon/i7/i9
- Memory: 16/64G 2933MHz
- Storage: 1 X 1TB NVMe
- Graphics: NVIDIA® RTX 3000

**Dell Premier Wireless Keyboard and Mouse | KM717**
Enjoy an elegant design that fits into virtually any workspace.

**Dell Thunderbolt™ Dock | WD19TB**
Work at full speed with Dell's powerful Thunderbolt™ Dock. Charge your system faster, support up to three 4K displays and connect to your peripherals via a single cable.

**Dell UltraSharp 27 Monitor | U2718Q**
Dell's first 27" 4K monitor with InfinityEdge that supports HDR content playback. See stunning colors and details on a virtually borderless display.

# DSG 10ep
# Fixed Premium
# Solution

## Precision 7920 Tower

_____

Dell Precision workstations provide latest industry enhancements involving direct and third-party technology to increase performance and productivity by accelerating access to complex and large workflows/simulations.

**Max performance. Superior scalability.**
The new Precision 7920 Tower provides ultimate performance and scalability to grow alongside your vision.

- CPU: Intel® Plantinum
- Memory: 128GB 2933MHz
- Storage: 3 X 1TB NVMe Class 50
- Graphics: NVIDIA® RTX™ 5000/6000/8000

**Adapts to your innovations.**
Your Precision 7920 Tower is ready for complex projects, including virtual reality workflows, with the next generation AMD Radeon Pro™ and highest-performing NVIDIA® Quadro™ graphics.

**Dell UltraSharp 49 Curved Monitor | U4919DW**
A revolutionary 49" dual QHD curved monitor with ultra wide views, multitasking features and seamless connectivity for an immersive work experience.

**Dell Wireless Premium Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

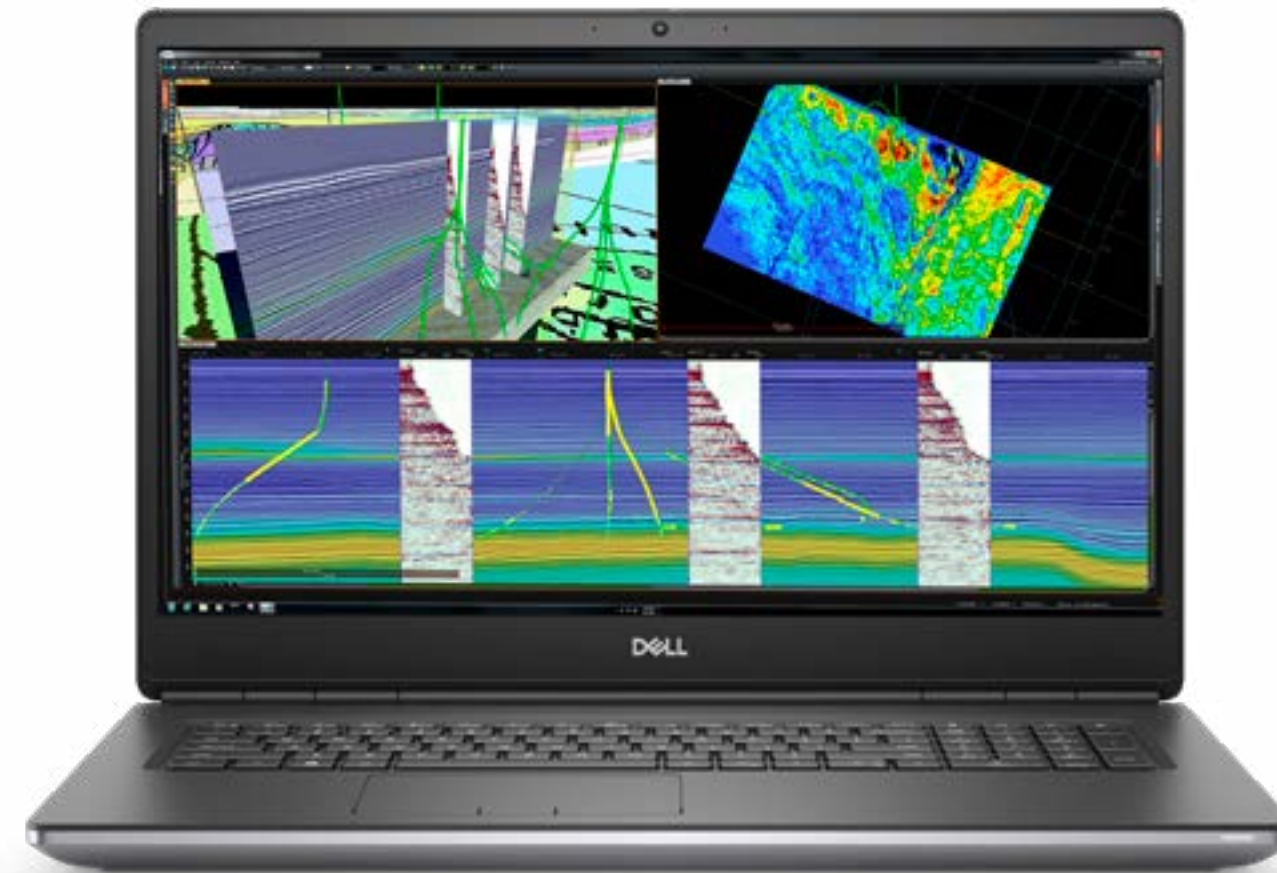# DSG 10ep
# Premium Mobile Solution

## Precision 7550/7750

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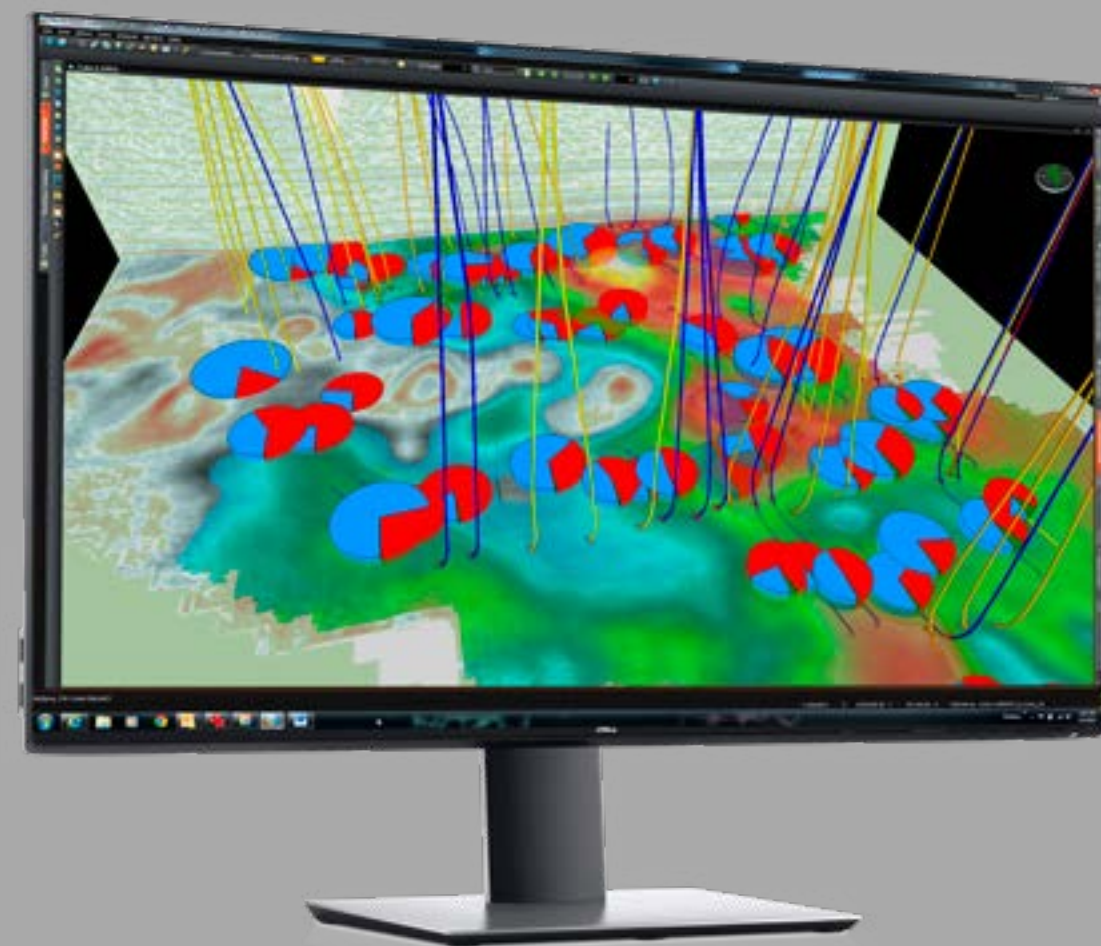
**Unleash peak performance.**
Put performance where you need it most. Redesigned to be thinner, lighter and Ready for VR. Featuring the latest Intel® Core™ and Xeon® 6/8 Core processors.

- CPU: Intel® 6/8 Core™ i7, i9, Xeon
- Memory: 32/128GB 2933 MHz
- Storage: 2 X 1TB NVMe
- Graphics: NVIDIA® RTX™ 5000

**Redefine reality.**
Create fully-immersive AR and VR content with next generation NVIDIA® Quadro™ professional graphics and powerful performance normally found only in tower workstations.

**Dell UltraSharp 32 4K USB-C Monitor | U3219Q**
Experience outstanding screen performance on this 31.5" 4K USB-C monitor featuring InfinityEdge and multitasking capabilities.

**Dell Wireless Premium Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

**Dell Professional Dock | WD19DC**
Dell's most powerful dock* delivers the ultimate productivity experience. Charge your system faster, support up to four 4K displays and connect to your peripherals via a single cable with dual USB-C connectors for up to 230W of power delivery.

*When used with Dell systems with Type-C. Based on Dell internal analysis of competitive products using publicly available data as of February 2019.

# Petrel Workflow

The Petrel E&P software platform brings disciplines together. With best-in-class applied science in an unparalleled productivity environment, it enables companies to standardize workflows from exploration to production, and make more-informed decisions. Dell's powerful and portable workstations easily integrate with third-party technology to increase performance and productivity by accelerating access to complex and large workflows. You provide the purpose and we'll deliver the power.

## GEOSCIENCE
Petrel

## DRILLING
Petrel

## PETROPHYSICS
Petrel

## RESERVOIR CHARACTERIZATION
Petrel

**Challenges/Opportunities**

Industry is looking to accelerate the replacement of reserves and boost recovery in difficult reservoirs to increase productivity.

**Challenges/Opportunities**

Drilling teams need to work in an integrated and collaborative environment to maximize reservoir contact, drill on time and on budget, and reach targets safely and in compliance with country or company regulatory requirements.
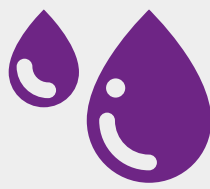
**Challenges/Opportunities**

Geologists need to understand rock properties in the reservoir; and petrophysicists need to conduct petrophysical field analyses in multiple wells and multiple zones.

**Challenges/Opportunities**

GeoFrame reservoir characterization software provides a comprehensive solution to meet your integrated seismic, geological, mapping, and petrophysical interpretation needs.

## See Dell solutions below:

| Value | Premium | AI Data Science |
|-------|---------|-----------------|
|       |         |                 |

# Petrel
# Value Fixed Solution

## Precision 5820 Tower

————

Dell Precision workstations provide the latest industry enhancements involving direct and third-party technology to increase performance and productivity by accelerating access to complex and large workflows.



**Perfected to your vision.**
Expand your ideas with the Precision 5820 Tower. Featuring high performance in a new innovative, versatile compact design.

- CPU: Intel® XEON®
- Memory: 128GB 2933MHz
- Storage: 2 X 1TB NVMe
- Graphics: NVIDIA® RTX™ 4000/5000/6000

**Adapts to your innovations.**
Your Precision 5820 Tower is ready for complex projects, including virtual reality workflows, with the next generation AMD Radeon Pro™ and highest-performing NVIDIA® Quadro™ graphics.

**Dell UltraSharp 49 Curved Monitor | U4919DW**
A revolutionary 49" dual QHD curved monitor with ultra wide views, multitasking features and seamless connectivity for an immersive work experience.

**Dell Premier Wireless Keyboard and Mouse | KM717**
Enjoy an elegant design that fits into virtually any workspace.

# Petrel
# Value Mobile Solution
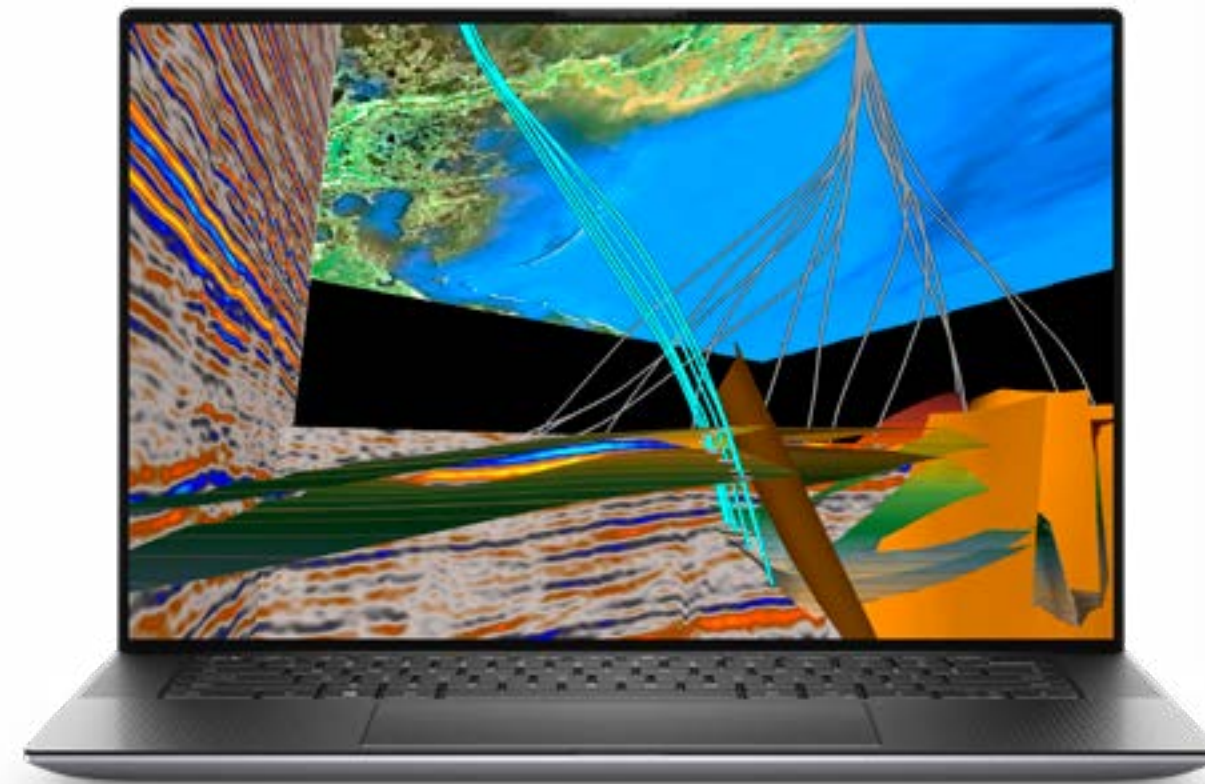
## Precision 5550/5750

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Dell Precision workstations provide the latest industry enhancements involving direct and third-party technology to increase performance and productivity by accelerating access to complex and large workflows.

**Performance for your vision.**
Dell's new 15" and 17" mobile workstations feature next-gen Intel® processors and professional graphics for an immersive work experience and enhanced performance.

**Precision 5550 Mobile Workstation**
- CPU: Intel® Xeon® or Core™ i7/i9
- Memory: 16/64GB 2933MHz
- Storage: 1 X 1TB NVMe
- Graphics: NVIDIA® T1000/2000

**Show off your work.**
InfinityEdge display with PremierColor ensures brilliant, virtually borderless viewing.

**Stays cool.**
A revolutionary cooling system with dual fans improves airflow and keeps your system cool under heavy workloads.

**Reliable, fast memory.**
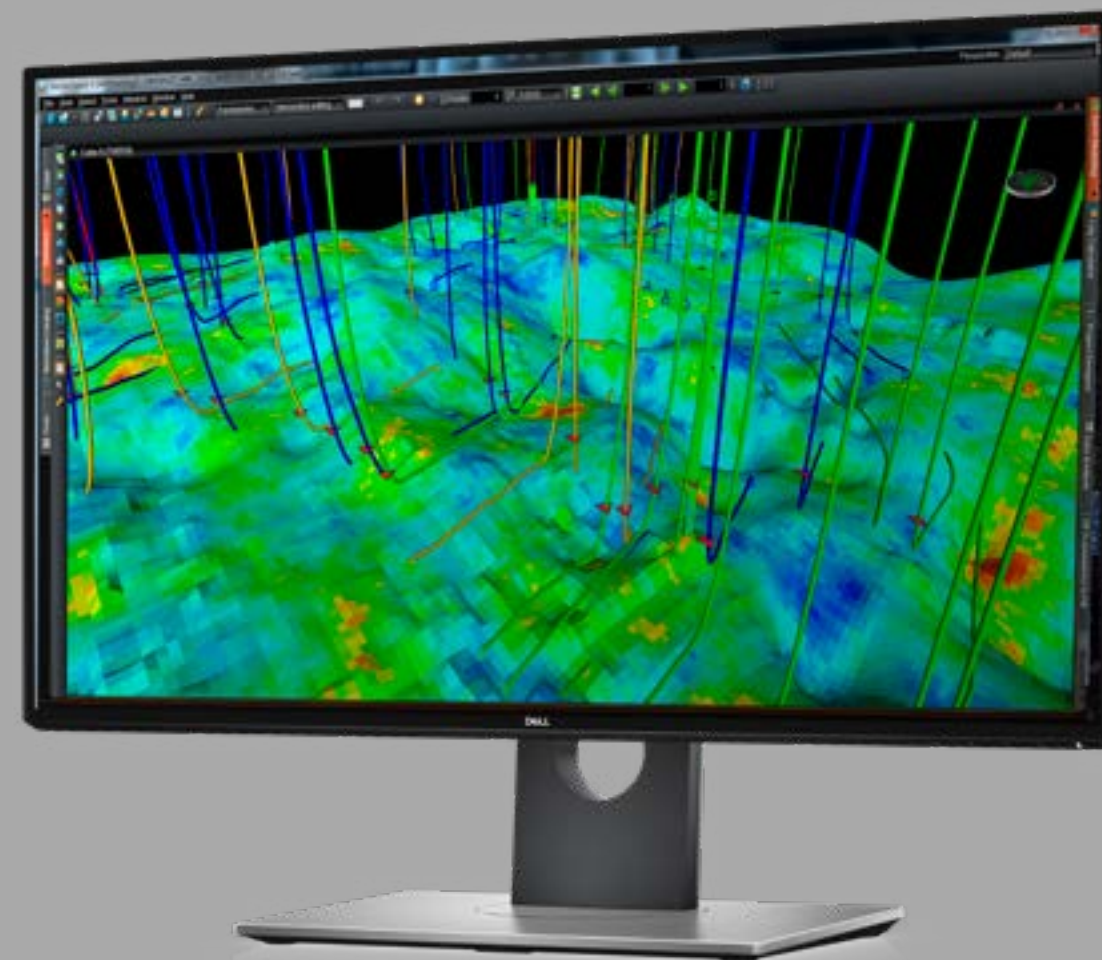Accelerate workflow with up to 64GB of 2933MHz DDR4 memory speeds.

**Quick office integration.**
Thunderbolt™ 3 Type-C with x4 PCIe and HDMI 2.0 ports enable 4K video connectivity at 60 frames per second.

**Precision 5750 Mobile Workstation**
- CPU: Intel® Xeon® or Core™ i7/i9
- Memory: 16/64G 2933MHz
- Storage: 1 X 1TB NVMe
- Graphics: NVIDIA® RTX™ 3000

**Dell Thunderbolt™ Dock | WD19TB**
Work at full speed with Dell's powerful Thunderbolt™ Dock. Charge your system faster, support up to three 4K displays and connect to your peripherals via a single cable.

**Dell Premier Wireless Keyboard and Mouse | KM717**
Enjoy an elegant design that fits into virtually any workspace.

**Dell UltraSharp 27 Monitor | U2718Q**
Dell's first 27" 4K monitor with InfinityEdge that supports HDR content playback. See stunning colors and details on a virtually borderless display.

# Petrel
# Premium Fixed Solution

## Precision 7920 Tower

———————

Dell Precision workstations provide the latest industry enhancements involving direct and third-party technology to increase performance and productivity by accelerating access to complex and large workflows/simulations.

**Max performance. Superior scalability.**
The new Precision 7920 Tower provides ultimate performance and scalability to grow alongside your vision.

- CPU: Intel® Dual Platinum
- Memory: 192GB 2933MHz
- Storage: 2 X 1TB NVMe
- Graphics: NVIDIA® RTX™ 5000/6000/8000

**Adapts to your innovations.**
Your Precision 7920 Tower is ready for complex projects, including virtual reality workflows, with the next generation AMD Radeon Pro™ and highest-performing NVIDIA® Quadro™ graphics.

**Dell UltraSharp 49 Curved Monitor | U4919DW**
A revolutionary 49" dual QHD curved monitor with ultra wide views, multitasking features and seamless connectivity for an immersive work experience.

**Dell Wireless Premium Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

# Petrel
# Premium Mobile Solution (15" Display)

## Precision 7550

Dell Precision workstations provide the latest industry enhancements involving direct and third-party technology to increase performance and productivity by accelerating access to complex and large workflows.

**Amplify with superior power.**
Take work further with the 15" mobile workstation featuring 9th gen Intel® processors, NVIDIA® Quadro RTX™ graphics and 128GB of ECC memory.

- CPU: Intel® 6/8 Core™ i7, i9, Xeon
- Memory: 32/128GB 2933MHz
- Storage: 2 X 1TB NVMe Class 50
- Graphics: NVIDIA® RTX™ 3000/4000/5000

**Extract maximum power.**
The latest Intel® Core™ or Intel® Xeon® processors, with up to 8-cores, available with Error Correcting Code (ECC) available memory, combined with Dell Precision Optimizer, deliver the focused power you need to stay productive anywhere.

**Powerhouse graphics.**
Easily handle complex data-intensive workflows with next generation NVIDIA® Quadro RTX™ professional graphics.
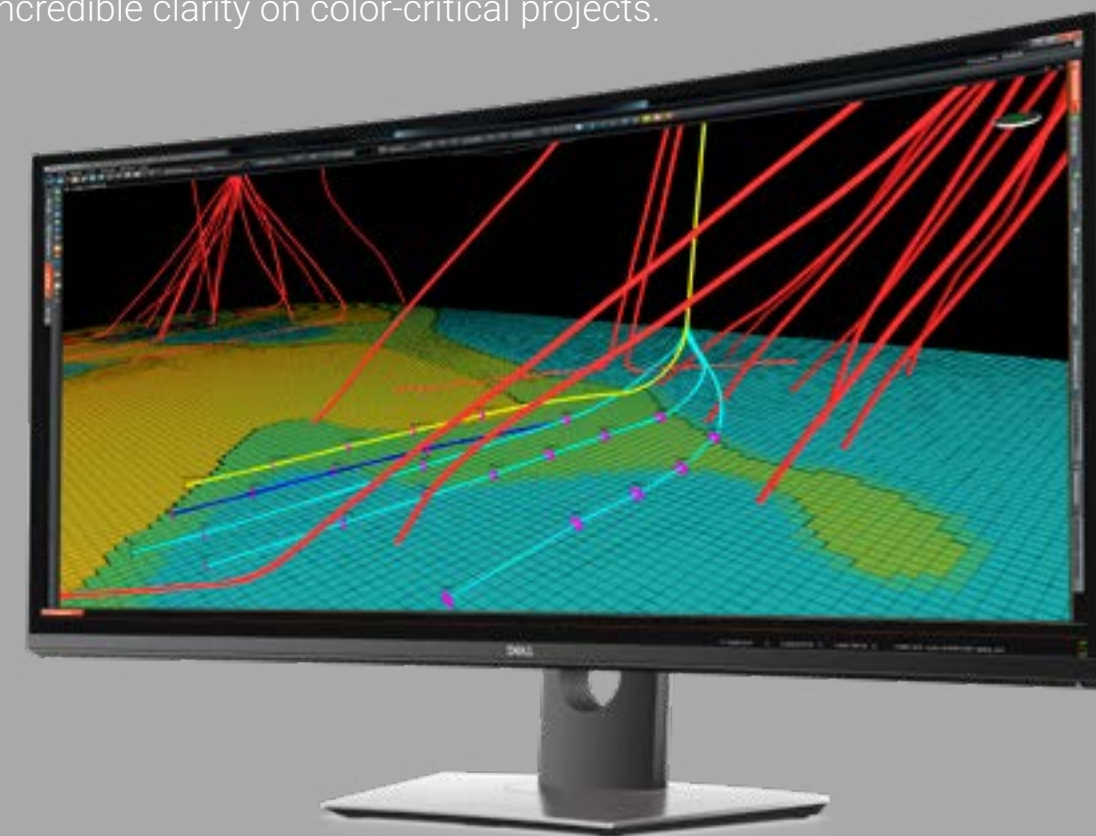
**Prolonged productivity.**
Get up to a 97Whr battery that features ExpressCharge and outstanding battery life, so you can get up and running quickly, and stay productive on the job no matter where you need to be.

**Dell UltraSharp 38 Curved Monitor | U3818DW**
The perfect 38" display for ideal color coverage and incredible clarity on color-critical projects.

**Dell Wireless Premium Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

**Dell Professional Dock | WD19DC**
Dell's most powerful dock* delivers the ultimate productivity experience. Charge your system faster, support up to four 4K displays and connect to your peripherals via a single cable with dual USB-C connectors for up to 230W of power delivery.

*When used with a Dell systems with Type-C. Based on Dell internal analysis of competitive products using publicly available data as of February 2019.

# Petrel
# Premium Mobile Solution (17" Display)

## Precision 7750

_____

Dell Precision workstations provide the latest industry enhancements involving direct and third-party technology to increase performance and productivity by accelerating access to complex and large workflows.

**Unleash peak performance.**
Put performance where you need it most. Redesigned to be thinner, lighter and Ready for VR. Featuring the latest 8th Gen Intel® Core™ and Xeon® 6/8 Core processors.

- CPU: Intel® 6/8 Core™ i7, i9, Xeon
- Memory: 32/128GB 2933 MHz
- Storage: 2 X 1TB NVMe
- Graphics: NVIDIA® RTX™ 5000

**Redefine reality.**
Create fully-immersive AR and VR content with next generation NVIDIA® Quadro™ professional graphics and powerful performance normally found only in tower workstations.

**Dell UltraSharp 32 4K USB-C Monitor | U3219Q**
Experience outstanding screen performance on this 31.5" 4K USB-C monitor featuring InfinityEdge and multitasking capabilities.

**Dell Wireless Premium Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.
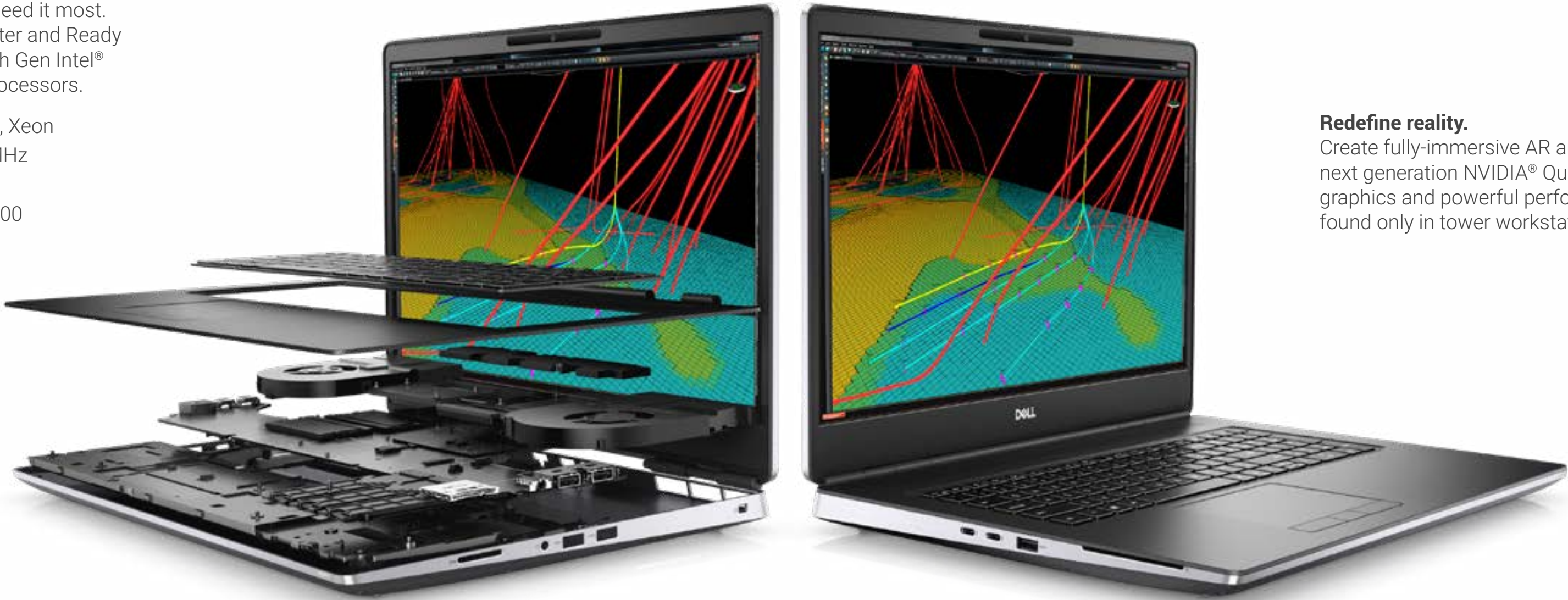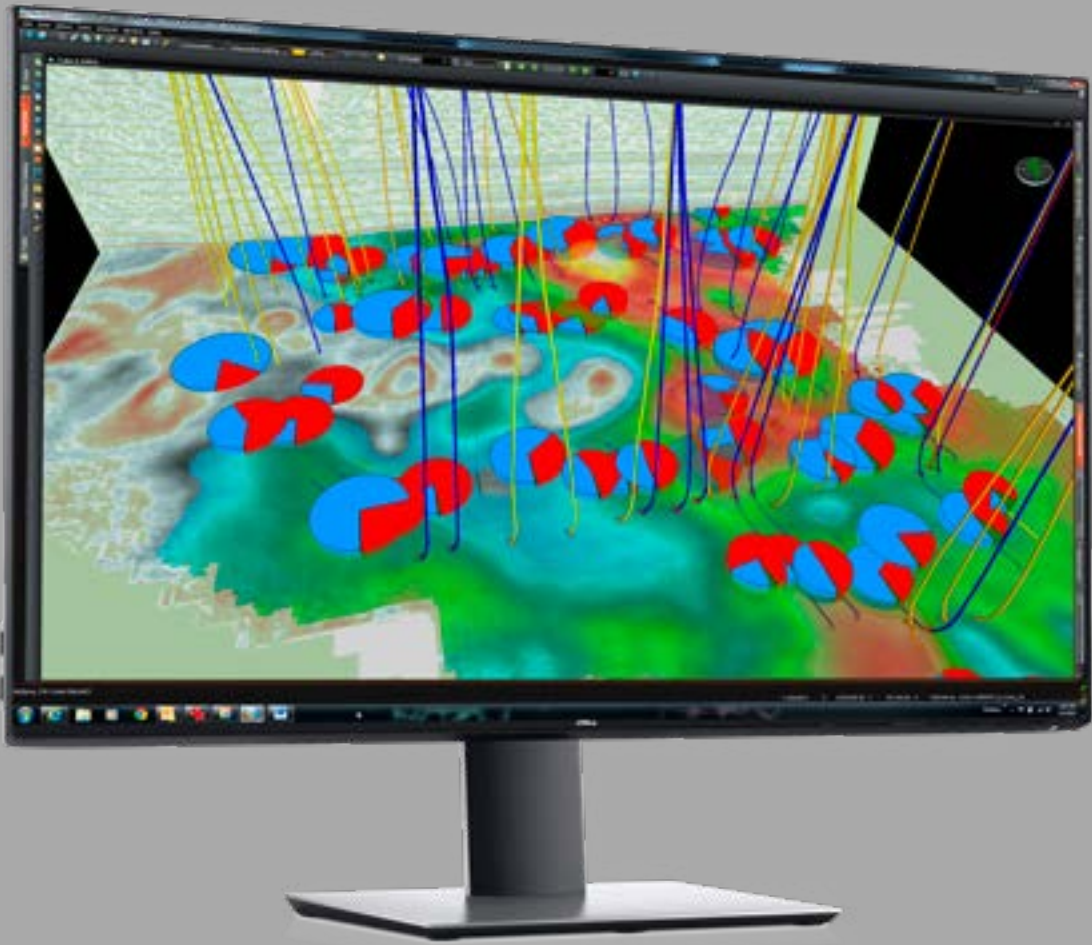
**Dell Professional Dock | WD19DC**
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*When used with Dell systems with Type-C. Based on Dell internal analysis of competitive products using publicly available data as of February 2019.

# Kingdom Workflow

Kingdom™ by IHS Markit integrates geoscience, geophysics and engineering into a single, easy-to-use software solution. It enables asset teams to quickly make confident decisions – from exploration to completion. Dell's powerful and portable workstations easily integrate with third-party technology to increase performance and productivity by accelerating access to complex and large workflows. You provide the purpose and we'll deliver the power.

| GEOSCIENCE | GEOLOGICAL INTERPRETATION | ENGINEERING |
|:---:|:---:|:---:|
| Kingdom | Kingdom | Kingdom |

### Challenges/Opportunities

With Kingdom you can complete 90% of key workflows and reduce your cycle time by half through streamlined workflows, increased performance with large projects, and reduced bottlenecks through shared data and workflows.
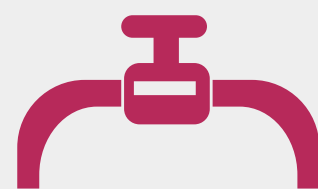
### Challenges/Opportunities

You can quickly visualize results using mapping, cross-sections, seismic interpretations, log plots, cross-plots, production and reservoir analysis, and 3D visualization.

### Challenges/Opportunities

Comprehensive engineering application for analyzing oil and gas well performance and evaluating reserves. Access a full suite of reservoir and production engineering tools in one interface.

## See Dell solutions below:

| Value | Premium | AI Data Science |
|:---:|:---:|:---:|

# Kingdom
# Value Fixed Solution

## Precision 5820 Tower

────────

Dell Precision workstations provide the latest industry enhancements involving direct and third-party technology to increase performance and productivity by accelerating access to complex and large workflows.

**Perfected to your vision.**
Expand your ideas with the Precision 5820 Tower. Featuring high performance in a new innovative, versatile compact design.

- CPU: Intel® Xeon/i7/i9
- Memory: 64GB 2933MHz
- Storage: 2 X 1TB NVMe
- Graphics: NVIDIA® RTX™ 4000/5000/6000

**Adapts to your innovations.**
Your Precision 5820 Tower is ready for complex projects, including virtual reality workflows, with the next generation AMD Radeon Pro™ and highest-performing NVIDIA® Quadro™ graphics.

**Dell UltraSharp Ultra HD 4K Monitor with PremierColor | UP3216Q**
The perfect display for ideal color coverage and incredible clarity on color-critical projects.
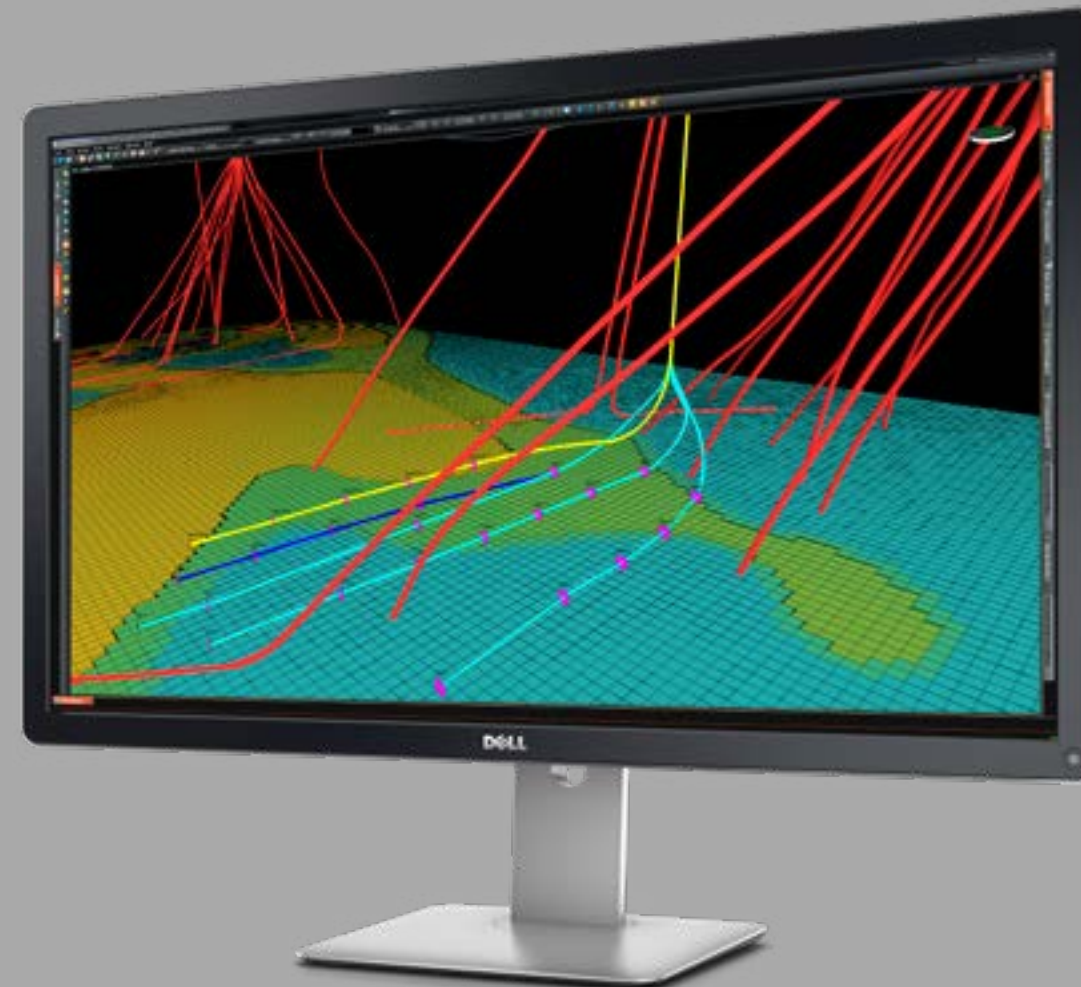
**Dell Premier Wireless Keyboard and Mouse | KM717**
Enjoy an elegant design that fits into virtually any workspace.

# Kingdom Value Mobile Solution

## Precision 5550/5750

Dell Precision workstations provide the latest industry enhancements involving direct and third-party technology to increase performance and productivity by accelerating access to complex and large workflows.

**Performance for your vision.**
Dell's new 15" and 17" mobile workstations feature next-gen Intel® processors and professional graphics for an immersive work experience and enhanced performance.

**Precision 5550 Mobile Workstation**
- CPU: Intel® Xeon/i7/i9
- Memory: 16/64GB 2933MHz
- Storage: 1 X 1TB NVMe
- Graphics: NVIDIA® T1000/2000
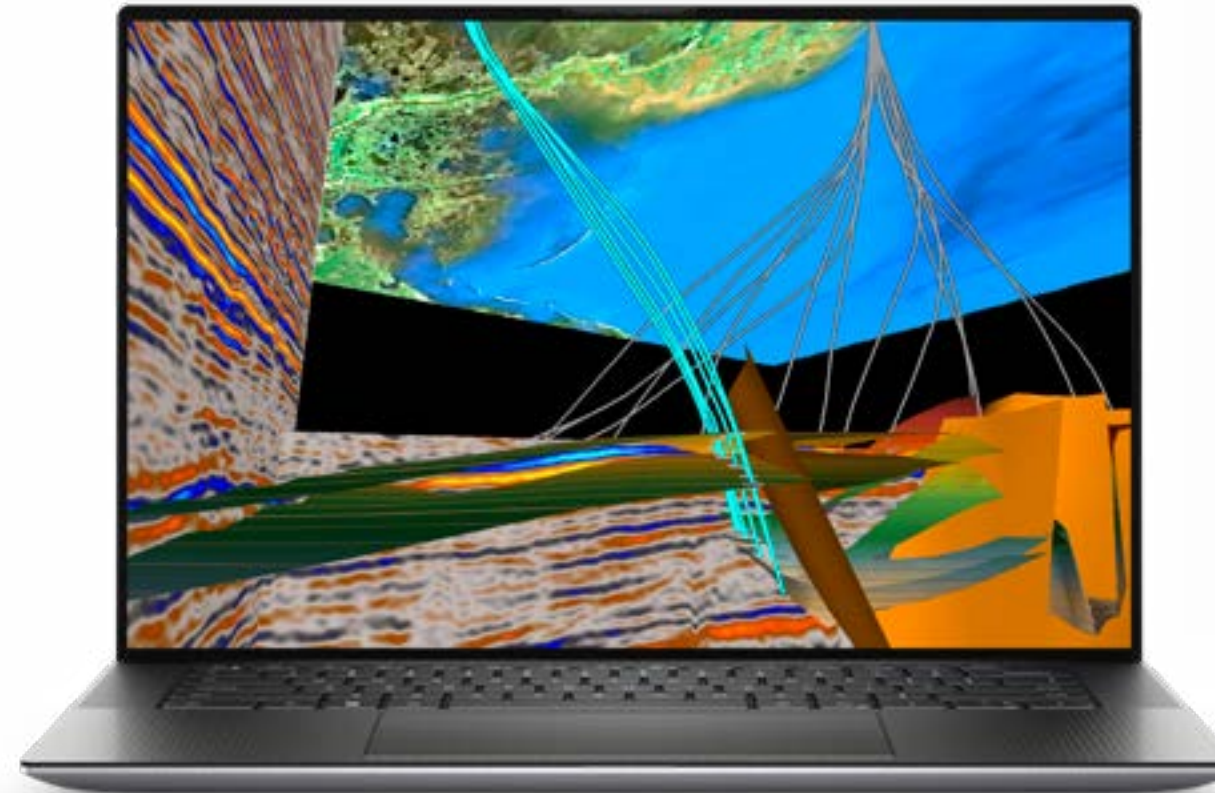
**Revolutionary thermals.**
This cooling system features dual fans, designed to improve airflow and keep your system cool under heavy workloads.

**Faster memory speeds.**
Accelerate workflows with enhanced 2933MHz memory speeds up to 32GB.

**Simple office integration.**
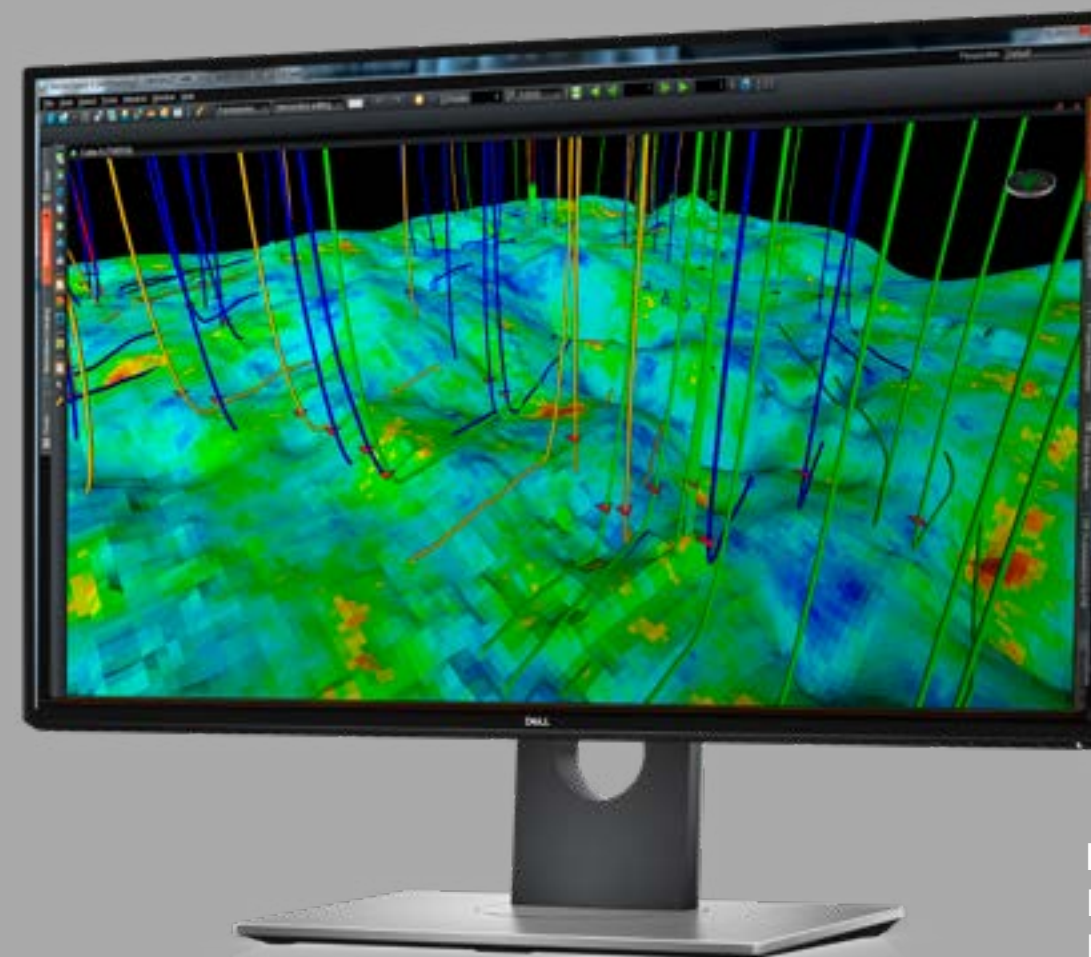Thunderbolt type-C with 4x PCIe and HDMI 2.0 ports keep you connected to everything you need.

**Precision 5750 Mobile Workstation**
- CPU: Intel® Xeon® i7/i9
- Memory: 16/64G 2933MHz
- Storage: 1 X 1TB NVMe
- Graphics: NVIDIA® RTX™ 3000

**Dell Premier Wireless Keyboard and Mouse | KM717**
Enjoy an elegant design that fits into virtually any workspace.

**Dell Thunderbolt™ Dock | WD19TB**
Work at full speed with Dell's powerful Thunderbolt™ Dock. Charge your system faster, support up to three 4K displays and connect to your peripherals via a single cable.

**Dell UltraSharp 27 Monitor | U2718Q**
Dell's first 27" 4K monitor with InfinityEdge that supports HDR content playback. See stunning colors and details on a virtually borderless display.

# Kingdom Premium Fixed Solution

## Precision 7920 Tower

———

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**Max performance. Superior scalability.**
The new Precision 7920 Tower provides ultimate performance and scalability to grow alongside your vision.

- CPU: Dual Intel® Plantinum
- Memory: 128GB 2933MHz
- Storage: 2 X 1TB NVMe
- Graphics: NVIDIA® RTX™ 5000/6000/8000



**Adapts to your innovations.**
Your Precision 7920 Tower is ready for complex projects, including virtual reality workflows, with the next generation AMD Radeon Pro™ and highest-performing NVIDIA® Quadro™ graphics.

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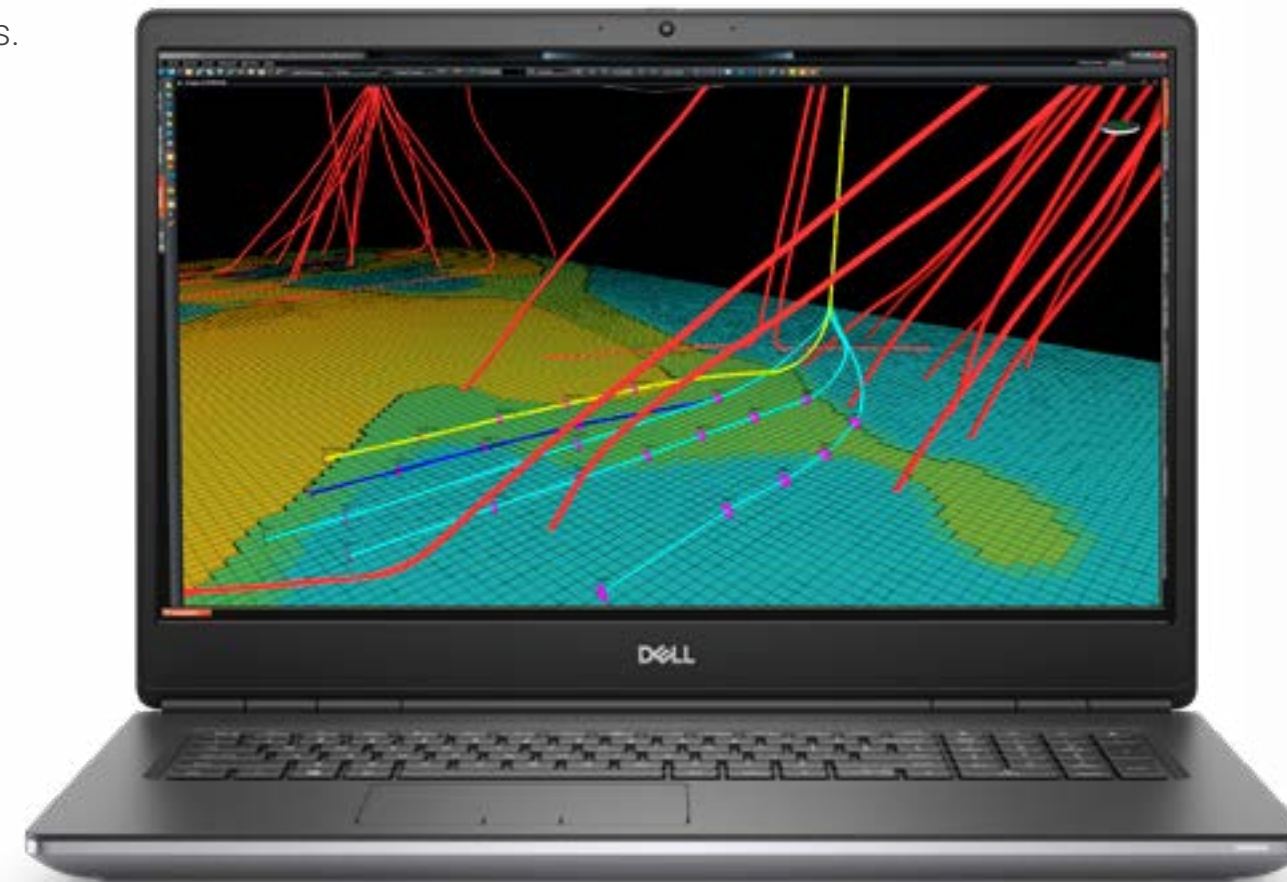
# Kingdom Premium Mobile Solution

## Precision 7550/7750

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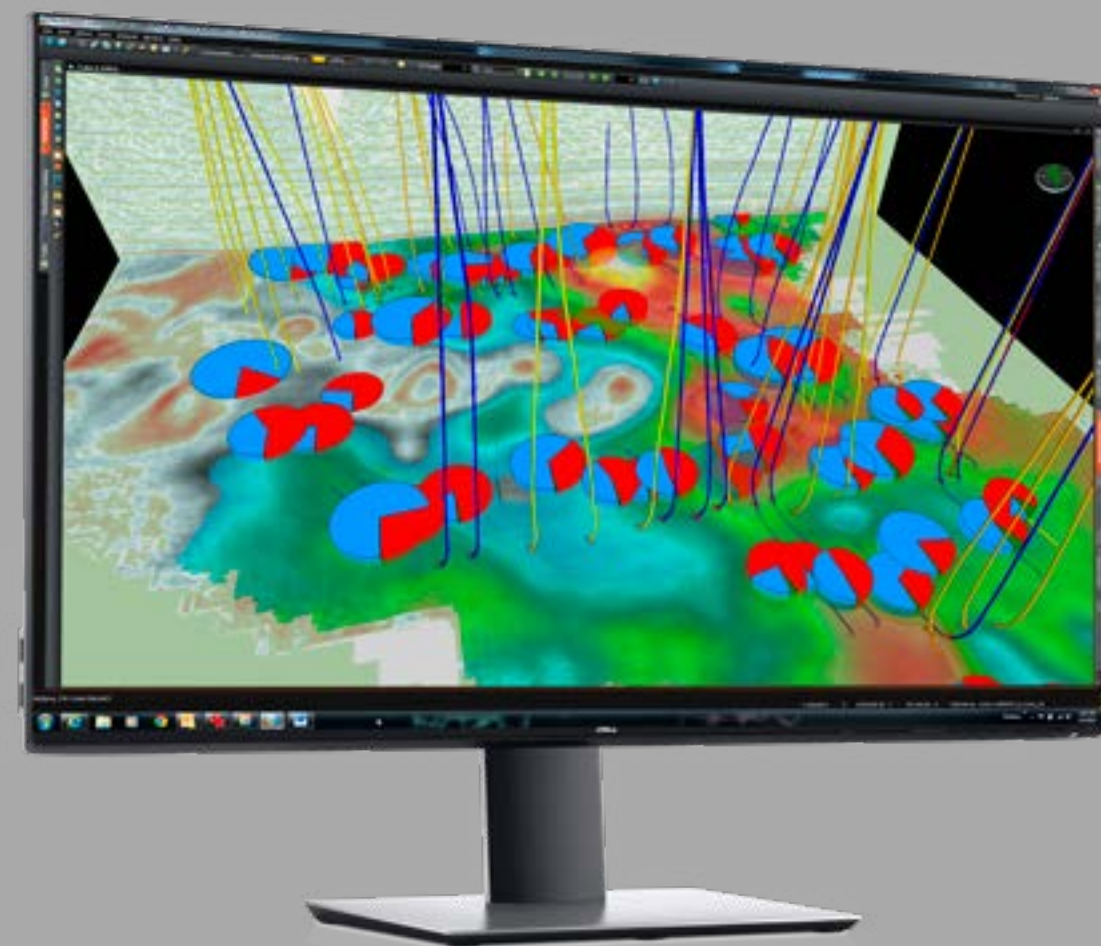
**Unleash peak performance.**
Put performance where you need it most. Redesigned to be thinner, lighter and Ready for VR. Featuring the latest 8th Gen Intel® Core™ and Xeon® 6/8 Core processors.

- CPU: Intel® 6/8 Core™ i7, i9, Xeon
- Memory: 32/128GB 2933MHz
- Storage: 2 X 1TB NVMe Class 50
- Graphics: NVIDIA® RTX™ 5000

Redefine reality and create fully-immersive AR and VR content with next-generation NVIDIA® Quadro™ professional graphics and powerful performance normally found only in tower workstations.

**Dell UltraSharp 32 4K USB-C Monitor | U3219Q**
Experience outstanding screen performance on this 31.5" 4K USB-C monitor featuring InfinityEdge and multitasking capabilities.

**Dell Wireless Premium Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

**Dell Professional Dock | WD19DC**
Dell's most powerful dock* delivers the ultimate productivity experience. Charge your system faster, support up to four 4K displays and connect to your peripherals via a single cable with dual USB-C connectors for up to 230W of power delivery.

*When used with Dell systems with Type-C. Based on Dell internal analysis of competitive products using publicly available data as of February 2019.

# Rugged Solutions for Upstream Exploration & Production

Users working in extremely hazardous environments across oil and gas need devices that are deemed intrinsically safe. The Dell Latitude Rugged computers and tablets comply with ANSI/ISA.12.12.01, CAN/CSA C22.2 as well as ATEX on our 7220EX tablet allowing them to be used in potentially explosive environments. All while providing the performance, connectivity and capacity companies need to scale fast, do more, and stay competitive.

## SITE SURVEYORS/ GEOSCIENTISTS

**Overview:** As a Site Surveyor or Geoscientist you need to be highly mobile in varying environments.

**Why you need Dell Rugged PCs:** When capturing and analyzing data you need systems that will stand up to any conditions, in any environment.

## PETROLEUM ENGINEERS

**Overview:** As a mobile Petroleum Engineer, you shift between design/ development of extraction plans and other field work.

**Why you need Dell Rugged PCs:** Highly mobile and built for rugged environments, they don't sacrifice computing power when used for design and planning work.

## RESERVOIR ENGINEERS

**Overview:** Though most analysis is done in the comfort of your office, you may be required to be in the field to perform well tests or gather data.

**Why you need Dell Rugged PCs:** They combine performance for the office and durability for the field to let you succeed in your job regardless of where you are.

## DRILLING ENGINEERS/ RIG OPERATOR

**Overview:** As a Drilling Engineer or Rig Operator, long days on the rig require a strong useable system while accomplishing your tasks.

**Why you need Dell Rugged PCs:** Purpose built to perform in the rugged outdoor conditions you will experience, with ingress and drop protection, glove touch and daylight readable screens.

## Challenges:

1. Trends in the digital transformation of extraction and production are changing processes for collecting, analyzing and acting upon data.
2. Location and extraction of the world's energy sources are becoming more reliant on technology advances.
3. Reductions in revenue resulting from slowing or stoppage of extraction and production due to antiquated systems and tools.

## Overcome those challenges with Dell's solutions below:
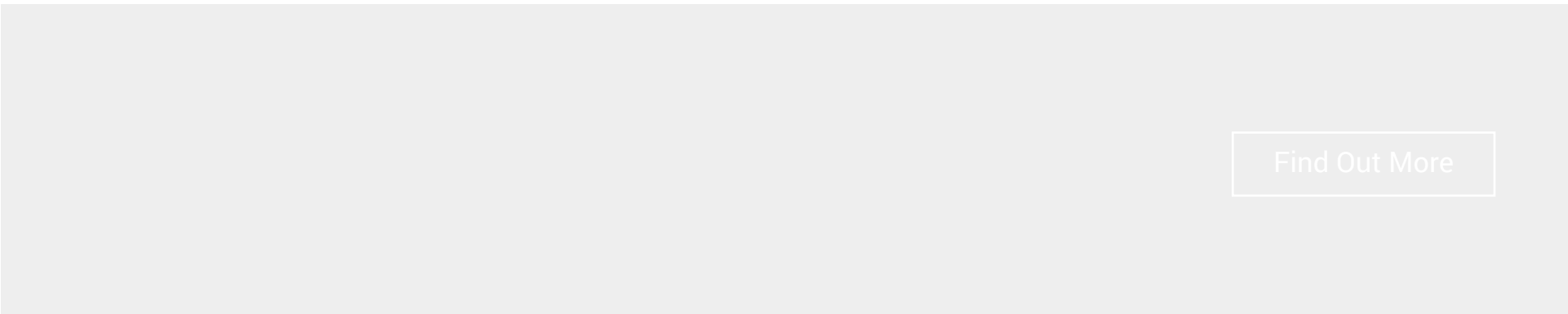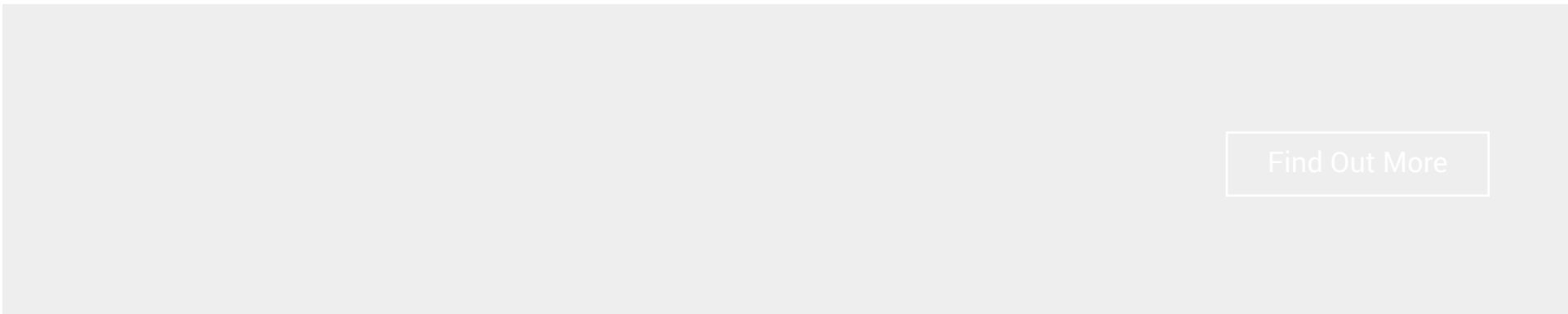
Find Out More

Find Out More

# Upstream Exploration & Production Field Solutions

## Dell Latitude 7220 and 7220EX Rugged Extreme Tablet

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Dell Rugged Solutions are exploration and field ready, providing reliable uptime and helping you work in the most challenging environments.
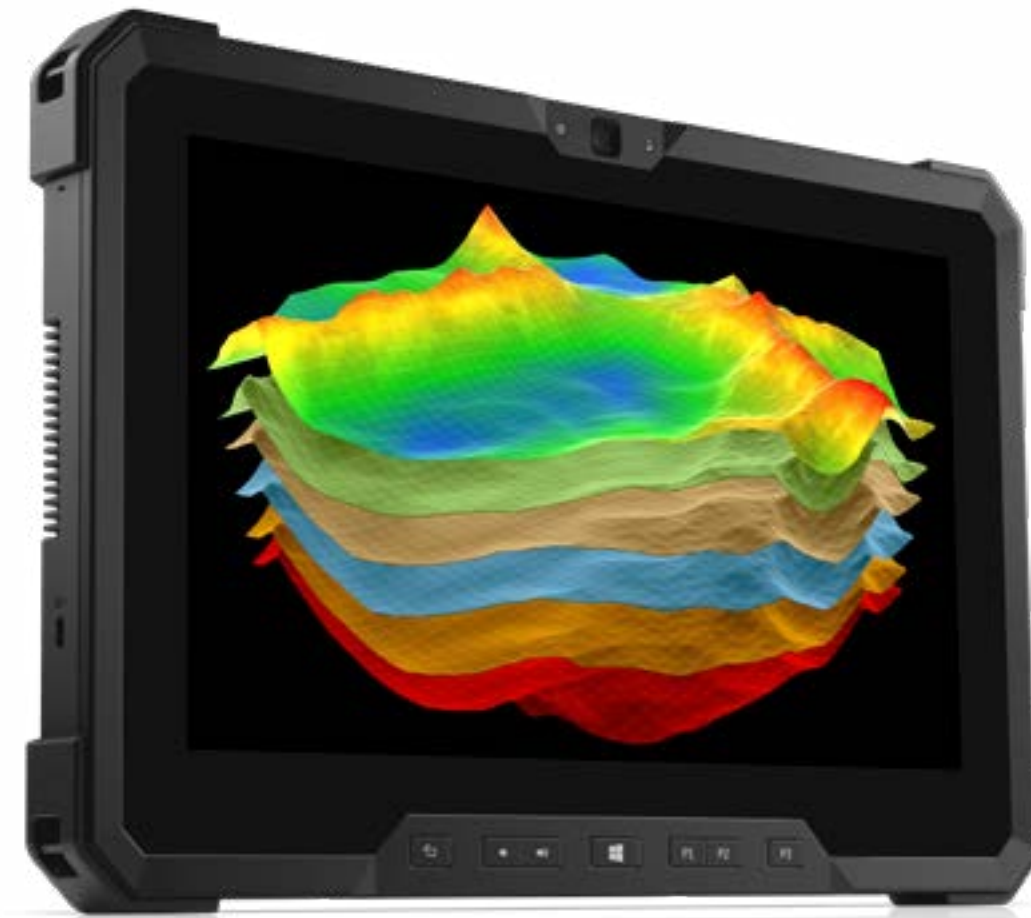
**Rugged For the Real World:** You can't slow down when the job is tough. No matter what challenges the world throws at you, handle them with confidence. Latitude Rugged means extreme durability for world-class reliability in rough conditions.

**Productivity Anywhere:** You need to stay productive and work efficiently even when the elements are working against you. Latitude Rugged is designed for the way you work with features like outdoor-readable displays, glove-capable touch, legacy IO capability and advanced wireless connectivity.

**Business Class Control:** The Dell Latitude Rugged portfolio allows you to take your business to the world's most challenging job sites. Latitude Rugged systems keep you in control of your technology with the same industry-leading security, manageability and reliability as the rest of the Dell Latitude portfolio.

## Take mobility to the extreme

**Easier to carry:** A tablet built to lighten your load on the job weighing in at only 2.82 lbs. With optional straps, handles and docking solutions, we can deliver maximum mobility to keep up with you.

**Work anywhere:** Whether it's the shop floor, a forklift or the back office, you'll be confident you have the right solutions to accomplish your daily tasks without having to sacrifice performance.

**Steadfast connection:** Optimized mobile connectivity that's 3X faster and dedicated GPS keeps you connected at the most critical moments wherever your job takes you.

**Performance where you need it:** Featuring the latest 8th Gen Intel® Core™ processors to power through the day.

## Charge Solutions

Security cabinet for 7 Rugged Tablets provides charging and network connectivity with its 'slide and click' and 'grab and go' functionality. An ideal solution for ensuring your tablets are ready to go with full power and critical updates.

## Rugged accessories:

**Rugged tablet & notebook carrying accessories**
Take your rugged tablet and notebook anywhere in the field, with lightweight and flexible shoulder straps, durable nylon and rigid handles, and easy-to-use cross-straps and chest-straps.

**Rugged tablet dock**
Maximize productivity when the job brings you back to the office with the Tablet Desk Dock. Offers dual display support, serial connection, USB peripheral connections and dual spare battery charging slots[1].

[1] Not compatible with 7220EX Tablet

**Keyboard Cover & Kick stand**
Increase your productivity in the field by adding an IP-65 rated full-size keyboard with customizable RGB backlit keys. The keyboard cover also offers additional screen protection and comes with a 180˚ kickstand[1].

**Vehicle/Remote Docking**
Vehicle/Remote docking solutions offer computer charging, security, and connection to peripherals in the enterprise, and other in-vehicle workplaces. Maximize productivity with these rugged lightweight docks which were built with theft deterrence, longevity and stability in mind.

**Active Stylus**
Get the most input responsiveness with an active Stylus. This Stylus is self-powered for a responsive pen experience on your Rugged Tablet.

**Scanner module**
Read 1D or 2D barcodes and magnetic stripe cards with the Scanner Module that attaches securely to the back of your rugged tablet.

# Exploration & Production Engineering Solution

## Dell Latitude 7424 Rugged Extreme Notebook

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In the toughest environments, Dell Rugged delivers reliability and full-scale mobility solutions to fit every scenario you encounter.

**Rugged For the Real World:** You can't slow down when the job is tough. No matter what challenges the world throws at you, handle them with confidence. Latitude Rugged means extreme durability for world-class reliability in rough conditions.

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## Nerves of steel.

The Dell Latitude Rugged Extreme 14 is constructed with shock-absorbent materials that meets rigorous military-standard requirements. Compression-sealed to achieve an IP65 rating to keep dust and moisture from impeding your daily tasks.

Rugged performance powered by the latest 8th Gen Intel® Core™ processors.

## A true workhorse.

The Dell Rugged Extreme 7424 offers the ability to add discrete graphics, optical disk drive and additional storage to ensure you have the power you need as well as dual hot swappable batteries for non-stop use. Secure your data with integrated security options like Smartcard and Fingerprint readers to keep unauthorized users out.
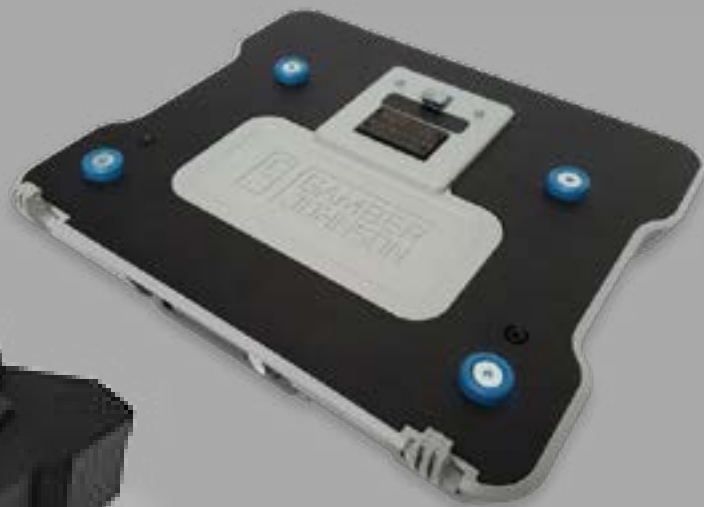
## Rugged accessories:

**Battery Charger**
Simultaneously charge Dell batteries for the 5420, 5424 and 7424 Dell Latitude Rugged notebooks and 7220 and 7212 tablets to keep spare batteries fully charged and ready-to-go to power your day.

**All Day Power**
Confidently stay to task all day with Dell Rugged dual hot swappable battery technology.

**Shoulder strap**
Enhance the portability of your notebook with the lightweight and flexible shoulder strap. The strap attaches easily and securely to the Quick Disconnect receptacles on the system and is easily removed when necessary.

**Docking Solutions**
Flexible docking solutions for the office, vehicle or any remote location where you need to be connected. Connect to legacy IO, peripherals and networks with ease where your job takes you.

# Rugged Solutions for Midstream Processing/Transportation/Refining

Rock Oil has come a long way since it was first used as a medicine in the 1800's. And today, it is refined for use in countless other ways. To prevent interruption to production, you need maximum uptime from your equipment, and Dell Rugged laptops and tablets are built to provide stability in any environment.
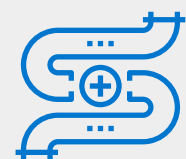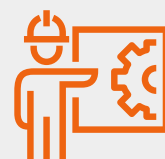
## PIPELINE ENGINEERS

**Overview:** Getting raw product to the production site quickly, efficiently and safely is key.

**Why you need Dell Rugged PCs:** Whether you are developing routes and technical specs or overseeing your design in the field, you need powerful yet flexible rugged characteristics to move from office to field work.

## SAFETY/REGULATORY TECHNICIANS

**Overview:** Ensuring field-level safety, environmental and regulatory policies and guidelines are met for safe production.

**Why you need Dell Rugged PCs:** Whether providing technical assistance to field operations or conducting inspections and assessments, you need a system that is reliable in any environment.

## SITE SUPERVISORS

**Overview:** The buck stops here! Overseeing all operations, ensuring safety and meeting your customers' requirements needs many moving parts to be in sync.

**Why you need Dell Rugged PCs:** To be able to be at any location in the refinery at any given time and have unfettered access to critical data to keep production flowing – you need reliability in any condition.

## PETROLEUM PUMP SYSTEM OPERATORS

**Overview:** Whether setting up, tending to, or operating and controlling the refinery pumps, you will frequently be on the move to many potentially hazardous locations.

**Why you need Dell Rugged PCs:** You need a highly-mobile solution with you wherever and whenever you need, regardless of the elements you'll be exposed to.

## REFINERY OPERATORS

**Overview:** Working with refinery equipment, maintaining and monitoring various machinery is key in this role.

**Why you need Dell Rugged PCs:** You need a rugged PC that is protected from the harsh environments you could be in. Dust, moisture, extreme temperature, drops and spills – we've got you covered.

## Challenges:

1. In a high-risk environment with combustible elements, the inspection and maintenance of pipelines is a mission-critical piece of the equation.
2. Personnel need reliable hardware to access critical data to inspect, maintain and communicate back findings in potentially austere environments.
3. Increase operational efficiencies, maximize productivity and produce goods at a lower costs while reducing risk that impact safety and profitability.

### Overcome those challenges with Dell's solutions below:

Find Out More

Find Out More

# Processing, Transportation & Refining Operations

## Dell Latitude 7220 and 7220EX Rugged Extreme Tablet

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Dell Rugged solutions are lightweight, powerful and strong. Accomplish tasks, monitor production and ensure safety in the most austere environments.

**Rugged For the Real World:** You can't slow down when the job is tough. No matter what challenges the world throws at you, handle them with confidence. Latitude Rugged means extreme durability for world-class reliability in rough conditions.

**Productivity Anywhere:** You need to stay productive and work efficiently even when the elements are working against you. Latitude Rugged is designed for the way you work with features like outdoor-readable displays, glove-capable touch, legacy IO capability and advanced wireless connectivity.

**Business Class Control:** The Dell Latitude Rugged portfolio allows you to take your business to the world's most challenging job sites. Latitude Rugged systems keep you in control of your technology with the same industry-leading security, manageability and reliability as the rest of the Dell Latitude portfolio.



## Take mobility to the extreme

**Easier to carry:** A tablet built to lighten your load on the job weighing in at only 2.82 lbs. With optional straps, handles and docking solutions we can deliver maximum mobility to keep up with you.

**Work anywhere:** Whether it's the shop floor, a forklift or the back office you'll be confident you have the right solutions to accomplish your daily tasks without having to sacrifice performance.

**Steadfast connection:** Optimized mobile connectivity that's 3X faster and dedicated GPS keeps you connected at the most critical moments wherever your job takes you.

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**Keyboard Cover & Kick stand**
Increase your productivity in the field by adding an IP-65 rated full-size keyboard with customizable RGB backlit keys. The keyboard cover also offers additional screen protection and comes with a 180° kickstand[1].

**Active Stylus**
Get the most input responsiveness with an active Stylus. This Stylus is self-powered for a responsive pen experience on your Rugged Tablet.

**Rugged tablet dock**
Maximize productivity when the job brings you back to the office with the Tablet Desk Dock. Offers dual display support, serial connection, USB peripheral connections and dual spare battery charging slots[1].

**Vehicle/Remote Docking**
Vehicle/Remote docking solutions offer computer charging, security, and connection to peripherals in the enterprise, and other in-vehicle workplaces. Maximize productivity with these rugged lightweight docks which were built with theft deterrence, longevity and stability in mind.

**Scanner module**
Read 1D or 2D barcodes and magnetic stripe cards with the Scanner Module that attaches securely to the back of your rugged tablet.

[1] Not compatible with 7220EX Tablet

# Processing, Transportation and Refining – Supervisory & Engineering

## Dell Latitude 7424 Rugged Extreme Notebook

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**Business Class Control:** The Dell Latitude Rugged portfolio allows you to take your business to the world's most challenging job sites. Latitude Rugged systems keep you in control of your technology with the same industry-leading security, manageability and reliability as the rest of the Dell Latitude portfolio.

## Nerves of steel.

The latest 14" notebook made with shock-absorbent materials that meets rigorous military-standard requirements. Compression-sealed from sand, dust and liquids.

Rugged performance powered by the latest 8th Gen Intel® Core™ processors.

## A true workhorse.

The Dell Rugged Extreme 7424 offers the ability to add discrete graphics, optical disk drive and additional storage to ensure you have the power you need as well as dual hot swappable batteries for non-stop use. Secure your data with integrated security options like Smartcard and Fingerprint readers to keep unauthorized users out.
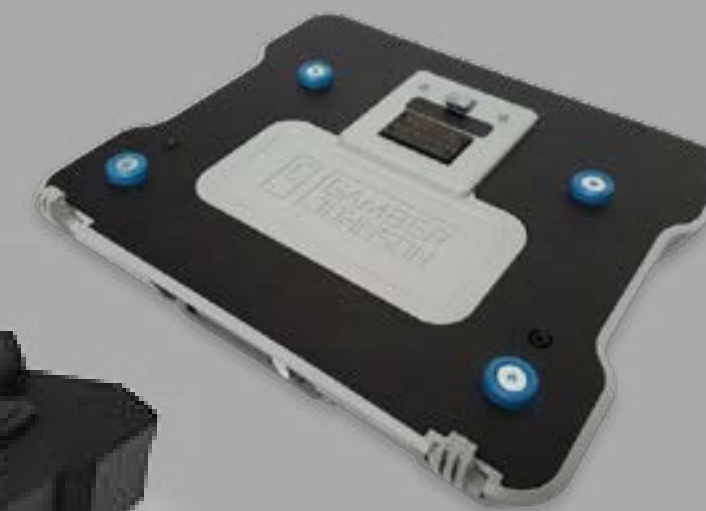
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**All Day Power**
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**Shoulder strap**
Enhance the portability of your notebook with the lightweight and flexible shoulder strap. The strap attaches easily and securely to the Quick Disconnect receptacles on the system and is easily removed when necessary.

**Docking Solutions**
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**Battery Charger**
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# AI / Machine Entry Level Data Science Workstation

## Precision 5820 Tower

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**An entry-level workhorse that drives productivity straight away.**

**Outstanding Performance** from the *Intel® Xeon® W-Processor Family* and the *Intel® Xeon® W-2145* containing 8-cores with 11MB CPU memory cache.

**Dual GPU Accelerator** technology featuring the *NVIDIA® Quadro RTX™ 6000 + NVIDIA® NVLink™*, providing 48GB of graphics memory for up to 130 TFLOPS of deep learning data sets and enhanced dual-card compute performance.

**Memory** capacity up to 256GB allowing fast problem solving in RAM storage.

**Better** net value and security vs. cloud services without processing cycle fee constraints.

Data science workflows have traditionally been slow and cumbersome, making it difficult to prepare and parse data to gain the valuable insights locked within. Dell Precision Data Science Workstations with NVIDIA® Quadro™ GPUs feature a fully integrated data science software stack that provide the performance required to transform massive amounts of data into insight.

Dell Data Science workstations provide an easy to deploy data science compute solution that enables enterprises to expand their data science efforts and explore data transforming the way they do business.

**Perfected to your vision.**
Expand your ideas with the Precision 5820 Tower. Featuring high performance in a new innovative, versatile compact design.

- Number of CPUs: 1
- CPU: 8 core Intel® Xeon®
- GPU: NVIDIA® Quadro RTX™ 6000
- Storage (Boot): 512TB NVMe
- Storage (Fast): 1TB NVMe
- Memory: 64GB

**Built for your future.**
Your Precision 5820 Tower grows with your ideas no matter where they take you, thanks to a new chassis that combines a versatile design with outstanding storage scalability.

The NVIDIA® Quadro RTX™ 6000 is designed to meed the requirements of demanding data science workflows. Powered by NVIDIA® Turing, delivering the extreme memory capacity, stability, and performance data scientists need to gain insights more quickly than ever before.

**Dell Wireless Premium Keyboard and Mouse Combo | KM717**
Keep your desk clutter-free with a modern wireless keyboard and mouse combo with scissor chiclet keys and LED tracking.

**Dell UltraSharp 32 4K USB-C Monitor | U3219Q**
Experience outstanding screen performance on this 31.5" 4K USB-C monitor featuring InfinityEdge and multitasking capabilities.

# AI / Machine Learning Ultra Performance Data Science Workstation

## Precision 7920 Tower

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**Take a step up with our most versatile, Data Science-targeted Precision 7920 offering featuring dual CPUs and GPUs**

**Outstanding Scalability** using Dell Precision 7000 Series Tower or Rack workstations.

**Paralleled performance** from the *Intel® Xeon®* Scalable Processor Family and Dual *Intel® Silver® 4100* CPUs containing 16 total cores.

**Dual GPU Accelerator** technology featuring the *NVIDIA® Quadro RTX™ 8000 + NVIDIA® NVLink™* providing 96GB of graphics memory for larger data science data sets and enhanced dual-card compute performance.

**Massive Memory** capacity up to 3TB allowing fast problem solving in RAM storage.

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Dell Data Science workstations provide an easy to deploy data science compute solution that enables enterprises to expand their data science efforts and explore data transforming the way they do business.

**Max performance. Superior scalability.**
The new AI and Deep Learning enabled Precision 7920 Tower provides ultimate performance and scalability to grow alongside your vision.

- Number of CPUs: 2
- CPU: Intel® Xeon® Silver 8 Cores
- GPU: 2x NVIDIA® Quadro RTX™ 8000 + NVIDIA® NVLink™
- Storage (Boot): 1TB SSD
- Storage 1 (Fast): 2 x 1TB NVMe
- Memory: 192GB
- Network: 1Gb integrated (10Gb Optional)

**No project is too big.**
The Precision 7920 Tower grows with your ideas no matter where they take you, thanks to a new FlexBay design that combines a versatile chassis with outstanding storage scalability.

The NVIDIA® Quadro RTX™ 8000 is designed to meet the requirements of demanding data science workflows. Powered by NVIDIA Turing, delivering the extreme memory capacity, stability, and performance data scientists need to gain insights more quickly than ever before.

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