

DELL Technologies

PRECISION 5690

Performance and
beauty collide



Get both the performance and style that you desire

The smallest footprint 16" workstation with AI-based optimization¹

Intelligent performance

Up to Intel Core Ultra 9,
16 cores (45W), NVIDIA® RTX™
5000 Ada graphics
64GB of 7467 MT/s LPDDR5x
8TB storage

Advanced Thermals

User Selectable Thermals
Tables (USTT) Dual Opposing
Output (DOO) fan with Turbo
blades & vapor chamber Dual
intake venting Thermal insulated material, GORE™

FHD IR camera with High Dynamic Range & User Presence Detection

Reliability

ISV Certified
MIL STD tested
Long battery life option

Dual microphones

Premium display

Up to UHD+ OLED
16 display with
PremierColor, Touch
and ComfortView Plus
(low blue light
technology) options

3-sided InfinityEdge bezel

Backlit Pro 2.5 keyboard

Fingerprint reader on power button

Polycarbonate & glassfiber palmrest

Haptics trackpad

Simplified PC updates

Get the latest BIOS, drivers
and firmware versions,
validated and delivered
seamlessly from Dell.

Industry's most secure commercial PC¹

Only Dell offers off-host BIOS
verification and Indicators of
Attack to reduce exposure to
future threats.

Secured Component Verification,
offered only by Dell, helps ensure
PCs are secure from factory to
first boot.

Dell and Intel reduce the attack
surface. The latest Intel vPro-
based PCs provide an estimated
70% attack surface reduction.²

Dell Optimizer for Precision

See Dell Optimize page for
more details.

Exceptional Audio

Premium speakers,
bottom-facing sub woofers

Sustainability

This workstation has
achieved the EPEAT Gold
Climate+ designation,
meeting industry best
practices for
decarbonization.

Starting at 4.27lbs / 1.93Kg

Extended Power Range to provide 165W on standard
USB-C connector

► [Click here to see the 3D Product Viewer](#)

¹ Based on Dell internal analysis, September 2023. Applicable to PCs on Intel processors. Not all features available with all PCs. Additional purchase required for some features.

² The latest Intel vPro based PCs provide an estimated 70% attack surface reduction compared to four-year-old devices. Based on IOActive's "Intel vPro 13th Gen Attack Surface Study" published March 2023 (commissioned by Intel), which evaluates Intel vPro devices powered by 13th Gen Intel Core processors against four-year-old Intel-based PCs on Windows OS. Details at www.intel.com/performance-vpro. Results may vary.



Intelligent performance

Performance and beauty collide to provide this thin and light workstation, featuring all-new Intel® Core™ Ultra processors, with fast integrated Intel® Arc graphics and AI-accelerators featuring NPU for Intel® AI Boost with vPro options and Copilot in Windows 11 taking advantage of advancing AI technologies to improve user productivity. The new smart, Intel design provides for excellent battery life. And of course, the user experience and workstation performance is optimized even further with AI-based Dell Optimizer for Precision



Immersive productivity and design

This 16" workstation boasts a 16:10 3-sided InfinityEdge display, up to QHD+ that provides for touch interactivity. Jumpstart your workflow with the Copilot Hardware Key, which provides quick access to the tools you need to start your workday. Revolutionize your meetings with Windows Studio Effects. Keep your audience engaged with video auto-framing and maintain eye contact effortlessly, even while referencing your notes, thanks to AI-eye tracking technology. Elevate your experience with AI-powered tools from Windows 11. Easily make use of the Snipping Tool, voice access, and smart recommendations within File Explorer and your Start menu.



Mission critical reliability and security

All Dell Precision workstations are tested and certified by independent software vendors to ensure reliably performance. Plus, they are MIL STD tested. Secure your workstation in our hybrid world with the industry's most secure commercial PCs* with built-in features that our competitors cannot match. Be secure in the office or on the road with features like a Smart Card Reader, Fingerprint Reader, and an IR Camera with Windows Hello and proximity sensor. Layer on advanced threat protection with industry-leading partner software. Truly embrace hybrid work with secure and reliable 4G and 5G connectivity.



Dell Optimizer for Precision

Dell Optimizer is our AI-based optimization software that learns and responds to the way you work, designed to automatically improve application and device performance, PC and accessory battery run-time, audio/video settings and privacy – all in the background while you're working.



Get up to 18% in power savings¹

Save energy without sacrificing performance for ultimate efficiency with Power Optimization. Achieve power savings when you set your PC to Quiet Mode on your thermal management settings — giving you up to 2.4 watts of power savings compared to default mode.¹

Enhance application speed

Experience a boost in performance of your foreground application when running multiple programs simultaneously with Application Optimization.

Experience 2x faster network performance²

Network Optimization provides the world's first simultaneous multi-network connection for faster data and video downloads³, and joins the best network⁴ available.

Up-level audio for a better collaboration experience

Intelligent Audio senses your surroundings and improves the conferencing experience by removing unwanted sounds, alerts you when your voice quality is poor, and provides a better collaboration experience for you and all call participants.

Access personalized insights

Our Analytics feature monitors the utilization of your PC by analyzing your system's battery, storage, CPU and memory behavior to review your system's reliability and problem history, so you can identify bottlenecks quickly.

An intelligent ecosystem

Enjoy easy pairing and management of your Dell monitors and accessories with the integration of Dell Display Manager and Dell Peripheral Manager.

▶ [Click here to learn more about Dell Optimizer](#)

1. This is based on a Dell internal study, testing power and performance within our Dell Optimizer power module. White paper published November 2022 <https://www.delltechnologies.com/asset/en-us/solutions/business-solutions/industry-market/maximizing-power-efficiency-with-dell-optimizer-a-case-study.pdf>

2. Based on A Principled Technologies Report commissioned by Dell that ran PC performance benchmarks on Dell Latitude 9430 laptops and OptiPlex 7400 all-in-one desktop PCs: Improve PC app performance, battery charging, and end-user experiences with Dell Optimizer, June 2023

3. 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 wired or wireless connections. Based on Dell internal analysis

4. Best network selection based on signal strength, channel congestion, router type and others. Network suggestions based on user credentials.

Simplify IT

Our secure¹ and simple to manage offerings make IT management a breeze

Improve fleet-wide security with Dell Trusted Workspace

Reduce the attack surface with the industry's most secure commercial PCs¹ with protections competitors cannot match:



Be secure from first boot

Rigorous, state-of-the-art supply chain controls and Dell-unique Secured Component Verification reduce the risk of product tampering.



Spot ticking timebombs

Early-alert feature Indicators of Attack, offered only by Dell, scans for behavior-based threats.



Stay protected from evolving threats

Only Dell offers off-host BIOS and firmware verification, providing greater security than other PCs.¹ Comprehensive security support further minimizes the risk of attack in-use.

Layer on advanced threat protection with software from our ecosystem of best-of-breed partners (e.g., CrowdStrike, Absolute).

[Learn More >](#)

Manage your fleet of PCs - reliably and easily

Help secure and optimize your endpoints and deliver end-user productivity with Dell Manageability Solutions

Dell Trusted Update Experience makes it simple to update endpoints with the latest BIOS, driver, and firmware versions.

Dell is the only Top-5 PC vendor that:



Publishes² a device drivers and downloads release schedule: IT Admins can deploy fleet-wide device updates on a predictable timeline.



Performs³ integrated validation of all driver and BIOS modules in an update: IT Admins can expect a trusted, system compatible update deployment, across a fleet of devices.

[Learn More >](#)

DELL Technologies

A P E X

Experience the flexibility to transform your IT and deploy the latest technologies at predictable costs



Dell APEX Managed Device Service

Designed for small and medium business with limited or no in-house IT, this fully managed subscription includes a team of IT experts that keep business devices up-to-date and secure, with no year-long commitment required (US only.)



Dell APEX PC-as-a-Service

Designed to meet the specific IT needs of larger companies, this fully customizable subscription covers everything – devices, software and services available from one-to-five-year terms.

[Learn More >](#)

Recommended Accessories

Create your ideal workspace with these recommended accessories.



Dell UltraSharp 40 Curved Thunderbolt™ Monitor - U4025QW

World's 1st 40" 5K monitor with 120Hz refresh rate, Ambient Light Sensor and improved ComfortView Plus for all day productivity and multitasking performance.



HTC VIVE Pro 2 - Virtual Reality Headset

Next-level graphics and sound for riveting PC-VR. Purposeful and pragmatic ergonomics delivers smooth and comfortable immersion.



Dell Performance Dock - WD19DCS

Boost your PC's power with up to 210W on Dell's most powerful dock. Charge your system faster, support up to three displays and connect to your peripherals via a single cable with dual USB-C connectors.



Dell Pro Wireless ANC Headset - WL5024

Experience enhanced communication with this wireless AI-based microphone and Hybrid Active Noise Cancellation headset, designed to reduce background noise and ensuring comfort to bring your productivity to the next level.



Dell Speakerphone - SP3022

Your voice remains clear in meetings, with AI Noise Cancellation filtering out all background noise in your environment.



Dell EcoLoop Pro Backpack - CP5723

Designed for on-the-go productivity and protection, the Dell EcoLoop Pro Backpack 15 is made of eco-conscious material to complement busy lifestyles.



Wacom Cintiq Pro 24 Creative Pen Display Touch - DTH-2420

Enhance your creative process with the Wacom Cintiq Pro 24. Featuring world-class color performance on one of Wacom's largest 4K screens.



Dell Collaboration Keyboard and Mouse - KM900

Designed with a surreal level of detail, our premium keyboard and mouse combo transform collaboration, enhance productivity and provide all-day comfort.



Dell Bluetooth Travel Mouse - MS700

Your on-the-go workday becomes more portable than ever with this lightweight twistable mouse featuring multi-device connectivity that easily stows in any bag or travel case.



Sustainability on Dell Precision 5690

Built with Sustainable Materials

Your Precision 5690 mobile workstation is designed with at least 18% post-consumer recycled plastic¹ and a chassis made with 75% recycled aluminum and 25% low emissions aluminum in the laptop lid and bottom cover.²

This workstation also ships with a 165W adapter that contains 90% post-consumer recycled plastic and 50% recycled copper in the adapter cable.³

Packaging Innovation

This workstation ships in packaging made with 100% recycled or renewable content, that is also 100% recyclable.⁴

Environmental Certifications & Registrations

Meeting environmental standards demonstrates how our products adhere to energy-efficiency specifications and other extensive climate-related standards. This workstation is certified ENERGY STAR® 8.0, TCO certified, generation 9 and EPEAT gold registered with Climate+ designation.⁵

¹ Percentage based on system plastic weight and may vary by model. Based on internal analysis, January 2024

² Based on internal analysis, January 2024.

³ Percentage is based on plastic weight in the case. Based on internal analysis, September 2023

⁴ Contains 66.8% recycled content and 33.2% renewable materials. Renewable materials in the form of sustainably forested fibers. Percentages may vary slightly by region. Excludes optional items added to order and included in box

⁵ Based on internal analysis, January 2024. Based on EPEAT Climate+ Designations achieved in all applicable countries. EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status and tier levels



See how we are reducing the impact of our products and solutions Dell.com/Sustainable-Devices

FEATURE	TECHNICAL SPECIFICATION	FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER ¹	Precision 5690		
PROCESSOR OPTIONS	Intel® Core™ Ultra 5 135H vPro® Enterprise (18 MB cache, 14 cores, up to 4.60 GHz) Intel® Core™ Ultra 7 155H vPro® Essentials (24 MB cache, 16 cores, up to 4.80 GHz) Intel® Core™ Ultra 7 165H vPro® Enterprise (24 MB cache, 16 cores, up to 5 GHz) Intel® Core™ Ultra 9 185H vPro® Enterprise (24 MB cache, 16 cores, up to 5.10 GHz)	WIRELESS	Intel® Wi-Fi 7 BE200, 2x2, 802.11be, MU-MIMO, Bluetooth® 5.4 wireless card
OPERATING SYSTEM	Windows 11 Home, 64-bit Windows 11 Pro, 64-bit Ubuntu 22.04 RHEL	BATTERY OPTIONS	6-cell (99.5Whr) Lithium-Ion polymer battery with Express Charge Boost Long life cycle battery option
MEMORY OPTIONS	16GB, LPDDR5x, 7467 MT/s, integrated, dual-channel 32GB, LPDDR5x, 7467 MT/s, integrated, dual-channel 64GB, LPDDR5x, 7467 MT/s, integrated, dual-channel	DISPLAY OPTIONS	16" FHD+ non-touch, 1920 x 1200, WVA, 60Hz, 500 nits WLED, Low BL w/ IR Cam, DCI-P3 100% 16" OLED touch, 3840 x 2400, 60Hz, WVA, 400 nits WLED, Adobe 100% min and DCI-P3 100% typ, 99% min w/ IR Cam
GRAPHIC	Intel Integrated Graphics UMA NVIDIA RTX 1000 Ada Generation, 6GB GDDR6 NVIDIA RTX 2000, Ada Generation DDR6, 8GB memory NVIDIA RTX 3500 Ada Generation DDR6, 12GB memory NVIDIA RTX 4000 Ada Generation DDR6, 12 GB memory NVIDIA RTX 5000 Ada Generation DDR6, 16 GB memory	KEYBOARD	Spill resistant, backlit keyboard. Available in many languages.
INTEGRATED VIDEO CONTROLLER	Intel® Arc™ Graphics (for Intel® Core™ H processors and requires 128-bit (dual-channel) memory with minimum of 16 GB memory) Intel® Graphics	POWER OPTIONS	100W UMA Height: 26mm Width: 60mm Depth: 122mm Input voltage (maximum): 240VAC Input voltage (minimum): 100VAC Input frequency maximum: 60Hz Input frequency (minimum): 50Hz Input current (maximum): 1.7A Output current (continuous) 5A Rated Output Voltage: 20VDC
STORAGE OPTIONS	M.2 2230, 256GB, PCIe NVMe Gen4 x4, Class 35 SSD M.2 2280, 512 GB, PCIe NVMe Gen4 x4, Class 40 SSD M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD M.2 2280, 2TB, PCIe NVMe Gen4 x4, Class 40 SSD M.2 2280, 4TB, PCIe NVMe Gen4 x4, Class 40 SSD M.2 2280, 512GB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive	POWER OPTIONS	165W Discrete & UMA Height: 22mm Width: 66mm Depth: 136mm Input voltage (maximum): 240VAC Input voltage (minimum): 100VAC Input frequency maximum: 60Hz Input frequency (minimum): 50Hz Input current (maximum): 2.2A Output current (continuous) 5.89A Rated Output Voltage: 28VDC
MEDIA-CARD READER	Secure Digital (SD) Secure Digital High Capacity (SDHC) Secure Digital Extended Capacity (SDXC)	PORTS AND SLOTS	(2) ThunderBolt™ 4 ports with PowerDelivery USB Type-C™ / Display port alt Universal audio jack SD-card slot Wedge-shaped lock slot Optional Smart Card Reader HDMI 2.1
FINGERPRINT READER	Sensor resolution: 500DPI	CAMERA	FHD IR camera with HDR, Clover Falls+ presence detection sensor, ambient light sensor, Windows Hello compliance
DIMENSIONS & WEIGHT	Front: 20.5mm, (.80in) without rubber foot, 26.17 with foot Rear: 22.17mm, (0.87in) without rubber foot, 26.17mm with foot Width: 353.68mm, (13.92in) Depth: 240.33mm, (9.46 in) Weight (minimum): 1.93kg, (4.27 lbs)	PRODUCTIVITY SW ¹	Dell Auto Bluetooth Pairing Meeting Ready Apps Play Ready 3.0 Dell Support Assist Dell Developed Recovery Environment (DDRE) Dell Optimizer for Precision Dell Support Center Intel® WiFi Direct
TOUCHPAD	Resolution: Horizontal 1770, Vertical 1039 Dimensions: Horizontal 150.9mm, Vertical 90mm	CASE COLOR	Anodized Titan Gray
AUDIO	Dual array microphones 4x Premium speakers Intel® Wi-Fi 7 BE200, 2x2, 802.11be, MU-MIMO, Bluetooth® 5.4 wireless card	ACCIDENTAL DAMAGE SERVICES	1-year Accidental Damage Service 2-year Accidental Damage Service 3-year Accidental Damage Service 4-year Accidental Damage Service 5-year Accidental Damage Service
CHASSIS	Material: Aluminum + resin	REGULATORY ^{8,12}	Product Safety, EMC and Environmental Datasheets Dell Regulatory Compliance Home Page Responsible Business Alliance policy
CHIPSET	Intel MTL-H 45W	INTEL RESPONSIVENESS TECHNOLOGIES	Intel® Rapid Storage Technology

FEATURE	TECHNICAL SPECIFICATION	FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER¹	Precision 5690		
SECURITY SW	Intel Platform Trust Technology (PTT) Intel Boot Guard Intel BIOS Guard Intel Trusted Execution Technology (TXT) ADL- Hypervisor Linear Address Translation (HLAT) Intel Total Memory Encryption Multi-Key TME D-Pedigree (Secure Supply Chain Functionality) Dell Digital Device ID: TPM Platform Root Key Provisioning Dell Trusted Device Agent Validation VMware Workspace ONE Absolute® Endpoint Visibility and Control Netskope Dell Supply Chain Defense	WARRANTY^{9,10}	1Y Hardware Service with In-Home/Onsite Service after Remote Diagnosis 2Y Hardware Service with In-Home/Onsite Service after Remote Diagnosis 3Y Hardware Service with In-Home/Onsite Service after Remote Diagnosis 4Y Hardware Service with In-Home/Onsite Service after Remote Diagnosis 5Y Hardware Service with In-Home/Onsite Service after Remote Diagnosis 1Y ProSupport with ProSupport Next Business Day Service 2Y ProSupport with ProSupport Next Business Day Service 3Y ProSupport with ProSupport Next Business Day Service 4Y ProSupport with ProSupport Next Business Day Service 5Y ProSupport with ProSupport Next Business Day Service 1Y ProSupport Plus with ProSupport Same Business Day Service 2Y ProSupport Plus with ProSupport Same Business Day Service 3Y ProSupport Plus with ProSupport Same Business Day Service 4Y ProSupport Plus with ProSupport Same Business Day Service 5Y ProSupport Plus with ProSupport Same Business Day Service
KEYBOARD	Spill resistant, backlit keyboard. Available in many languages.	SYSTEMS MANAGEMENT	Dell Client Command Suite: Streamline how you deploy drivers, configure BIOS, monitor devices and manage updates. Dell Trusted Update Experience: Simplify how you update your endpoints with the latest BIOS, drivers and firmware versions.
DOCKING	Dell Performance Dock - WD19DCS	INPUT	3Dconnexion SpaceMouse Wireless Enterprise - 3DX-700066 Dell Bluetooth Travel Mouse (Misty Blue) - MS700 Dell Collaboration Keyboard and Mouse - KM900 Dell Premier Rechargeable Wireless Mouse (Graphite) - MS7421W
SENSORS	Ambient light sensor Windows auto brightness IR proximity sensor Accelerometer for adaptive thermal Gyro + Accelerometer Hall effect sensor Sensor hub		

FEATURE	TECHNICAL SPECIFICATION	DESCRIPTION
MODEL NUMBER ¹	Precision 5490	
HARDWARE & FIRMWARE SECURITY (INCLUDED)	Dell Trusted Device	Generates insights into the security state of a platform, monitoring changes to BIOS attributes, detecting possible tampering of BIOS firmware, and more.
	Dell SafeBIOS	Verify the integrity of the BIOS with tamper detection and secure, off-host BIOS image capture.
	Dell SafeBIOS Indicators of Attack	Scan for behavior-based threats for early detection by enabling telemetry integration with popular third-party security and endpoint management solutions. <i>Includes Microsoft Intune, Carbon Black Cloud, CrowdStrike, Splunk.</i>
	Dell SafeBIOS Common Vulnerabilities & Exposures (CVE) Detection	Identify and address known BIOS vulnerabilities and patch devices swiftly. <i>*Available early 2024.</i>
HARDWARE & FIRMWARE SECURITY (OPTIONAL)	Dell SafeID	Secure end-user credentials. This unique hardware-based security solution provides a hardened and secure bank for storing and processing user credentials. Dependent on model. Credential security options may include: - Secure interaction with Imprivada for authenticating credentials on multi-user devices - Finger Print Reader in Power Button tied to ControlVault 3 - ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification - Contacted Smart Card and ControlVault 3 - Contactless Smart Card, NFC, and ControlVault 3 - SED SSD NVMe, SSD and HDD (Opal and non-Opal) per SDL - FIPS 201 Full Scan Finger Print Reader and ControlVault - Trusted Platform Module (TPM) 2.0 discrete FIPS 140-2 certification for TPM
	Dell Secured Component Verification	Provides assurance that the device and its components remain secure from factory to first boot. On-device and cloud-based options available. Availability varies by region.
	Tamper-evident packaging	Detect tampering with this supply chain assurance offering. Availability varies by region.
	Hard drive wipes	Sanitize the hard drive in accordance with National Institute of Standards and Technology (NIST) guidelines with this supply chain assurance offering. Availability varies by region.
	Dell SafeShutter	Ensure user privacy with webcam shutter.
	Intel ME Verification	Verify the integrity of critical firmware using a secure off-host source. Requires Intel vPro.
	Chassis intrusion switch	Remotely detects hardware tampering and is integrated with Dell SafeBIOS Indicators of Attack.
	Kensington Security Slot™	Device locking option helps reduce the risk of a data breach. Standard slot that can be paired with a standard security cable lock. Spec varies by model: - Dell Fixed Workstations (Desktops): Kensington Security Slot™ (T-bar) - Dell Laptops: Kensington Security Slot™ (Wedge)
	Fingerprint reader	Fingerprint reader in Power button tied to ControlVault 3+ secures end-user credentials.
	OPAL drive / Self-encrypting drive (SED)	Hardware-based full disk encryption that protects user data without storing encryption keys in RAM where it can be accessed by malicious parties.
	SPI Flash Tamper Detection Circuit	Detects and prevents tampering with BIOS SPI flash chips on the motherboard.
SOFTWARE SECURITY (OPTIONAL)	Dell SafeGuard & Response: CrowdStrike, Carbon Black, Secureworks	Threat detection and response/remediation.
	Dell SafeData: Absolute	Self-healing for applications and networks.
	Dell SafeData: Netskope	Cloud and network data protection.
	McAfee Business Protection	Simple, automated, all-in-one security made for small businesses.

* Based on internal analysis, April 2021. Dell Optimizer available in 2020 devices, not available in OptiPlex 3000 series, Latitude 3310 2-in-1 and Latitude Chromebook Enterprise. Feature availability and functionality varies by model.

1. Offering may vary by region. Some items may be available after product introduction. For complete details, refer to the Owner's Manual published on www.dell.com/support.
2. System Memory and Graphics: Significant system memory may be used to support graphics, depending on system memory size and other factors.
3. 4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.
4. Particular versions of Microsoft Windows may not support the full Bluetooth 4.2 functionality
5. Storage Option: GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
6. TPM is available in selected regions.
7. Computrace: Not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.lockforlaptops.com.
8. Please refer to www.epeat.net for specific country registration rating and participation.
9. Limited Hardware Warranty: For copy of Ltd Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see www.dell.com/warranty.
10. on-site service after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware Warranty (www.dell.com/warranty) and not resolved remotely, technician and/or part will be dispatched, usually within 1 business day following completion of Remote Diagnosis. Availability varies. Other conditions apply.
11. Dell Services: Availability and terms of Dell Services vary by region. For more information, visit www.dell.com/servicedescriptions.
12. For complete listing of declarations and certifications, refer to the Dell Regulatory and Environmental Datasheet found in the Manuals section of Product Support information www.dell.com/support/home/us/en/19.