### **Precision 3440 Small Form Factor**

Setup and specifications guide



## Contents

1 Set up your computer	
2 Chassis overview	
Front view	
Back view	10
System board layout	1
3 Specifications of Precision 3440 Small Form Factor	12
System specifications	12
Dimensions and weight	12
Chipset	12
Processors	13
Operating system	14
Memory	14
Storage	15
Audio and Speaker	15
Video	16
Communications	16
Ports and connectors	17
Power supply	18
Security	18
Security Software	18
CAC/PIV Module	19
Out of Band Systems Management Intel Standard Manageability	20
Computer environment	20
Service and support	2 <sup>2</sup>
Support policy	2 <sup>2</sup>
Energy Star and Trusted Platform Module (TPM)	2 <sup>2</sup>
Accessories	22
Add-in cards	22
4 Getting help	23
Contacting Dall	2

### Notes, cautions, and warnings

i NOTE: A NOTE indicates important information that helps you make better use of your product.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

MARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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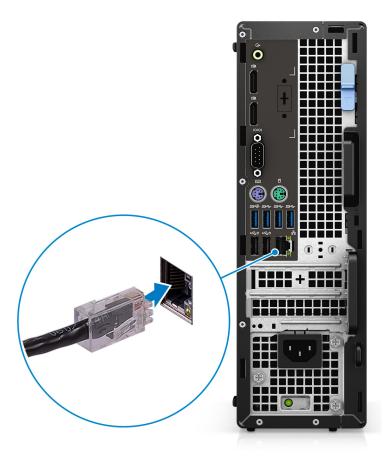
## Set up your computer

#### Steps

1. Connect the keyboard and mouse.



2. Connect to your network using a cable, or connect to a wireless network.



#### **3.** Connect the display.



4. Connect the power cable.



**5.** Press the power button.



**6.** Finish operating system setup.

#### For Ubuntu:

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, see the knowledge base articles SLN151664 and SLN151748 at www.dell.com/support.

For Windows: Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:

- · Connect to a network for Windows updates.
  - NOTE: If connecting to a secured wireless network, enter the password for the wireless network access when prompted.
- · If connected to the internet, sign in with or create a Microsoft account. If not connected to the internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.
- 7. Locate and use Dell apps from the Windows Start menu—Recommended

#### Table 1. Locate Dell apps

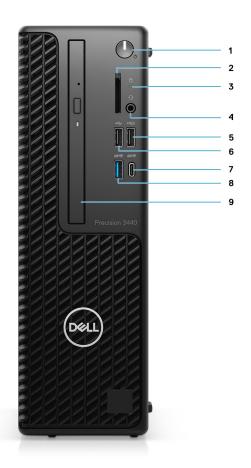
Dell apps	Details
	<b>Dell Product Registration</b> Register your computer with Dell.
	Dell Help & Support  Access help and support for your computer.

Table 1. Locate Dell apps(continued)

Dell apps	Details
	SupportAssist  Proactively checks the health of your computer's hardware and software.  NOTE: Renew or upgrade your warranty by clicking the
<b>Lo</b>	warranty expiry date in SupportAssist.  Dell Update  Updates your computer with critical fixes and important device drivers as they become available.
	Dell Digital Delivery  Download software applications including software that is purchased but not preinstalled on your computer.

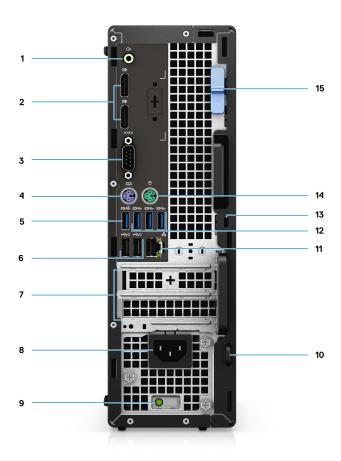
### **Chassis overview**

### **Front view**



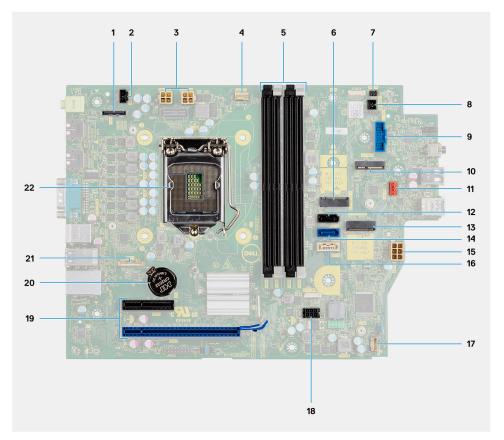
- 1. Power button and power light
- 2. SD card reader (Optional)
- 3. Hard drive activity light
- **4.** Universal audio jack port
- 5. USB 2.0 Type-A port with PowerShare
- 6. USB 2.0 Type-A port
- 7. USB 3.2 Gen 2 Type-C port with PowerDelivery
- 8. USB 3.2 Gen2 Type-A port
- 9. Optical disk drive

### **Back view**



- 1. Line -in/out retasking
- 2. Two DisplayPort 1.4 ports
- 3. Serial Port
- 4. PS/2 Keyboard port
- 5. USB 3.2 Gen 2 Type-A port
- 6. Two USB 2.0 ports with Power On
- 7. Expansion card slots
- 8. Power connector port
- 9. Power supply diagnostic light
- 10. Padlock loop
- 11. Network port
- 12. Three USB 3.2 Gen 1 Type-A ports
- 13. Kensington security-cable slot
- 14. PS/2 Mouse port
- 15. Release latch

### System board layout



- 1. Video connector
- 3. CPU power connector (ATX\_CPU)
- 5. Memory slots (DIMM1, DIMM2, DIMM3, DIMM4)
- 7. Power switch connector (PWR\_SW)
- 9. Media card reader connector (Card\_reader)
- 11. System fan connector
- 13. M.2 Soild-state drive connector
- 15. PSU connector
- 17. Internal speaker connector
- 19. PCI-e connectors
- 21. USB Type-C connector

- 2. Intrusion switch connector (Intruder)
- 4. CPU fan connector
- 6. M.2 Solid-state drive connector
- 8. Remote PWR switch connector
- 10. M.2 WLAN connector
- 12. SATA 1 connector
- 14. SATA 2 connector
- 16. SATA 3 connector
- 18. Internal USB header
- 20. Coin cell battery
- 22. Processor socket (CPU)

# Specifications of Precision 3440 Small Form Factor

### **System specifications**

NOTE: Offerings may vary by region. The following specifications are only those required by law to ship with your computer. For more information about the configuration of your computer, go to Help and Support in your Windows operating system and select the option to view information about your computer.

### **Dimensions and weight**

Table 2. Dimensions and weight

Description		Values	
F	leight:		
Front		290 mm (11.42 in.)	
	Rear	290 mm (11.42 in.)	
٧	Vidth	92.6 mm (3.65 in.)	
С	)epth	292.8 mm (11.53 in.)	
Weight (maximum)		5.59 kg (12.32 lb)  i NOTE: The weight of your computer depends on the configuration ordered and the manufacturing variability.	

### **Chipset**

#### Table 3. Chipset

Description	Values
Chipset	Intel W480
Processor	10th Generation Intel Core i3/i5/i7/i9/Xeon
DRAM bus width	Two channels, 128-bit
Flash EPROM	32 MB
PCle bus	Upto Gen 3
Non-volatile memory	Yes
BIOS Configuration Serial Peripheral Interface (SPI)	256 Mbit (32 MB) located at SPI_FLASH on chipset
Trusted Platform Module (Discrete TPM Enabled)	24 KB located at TPM 2.0 on chipset

Table 3. Chipset(continued)

Description	Values	
Firmware TPM (Discrete TPM Disabled)	By default the Platform Trust Technology feature is visible to the OS	
NIC EEPROM	LOM configuration contained within SPI flash ROM instead of LOM e-fuse	

### **Processors**

NOTE: Global Standard Products (GSP) are a subset of Dell's relationship products that are managed for availability and synchronized transitions on a worldwide basis. They ensure the same platform is available for purchase globally. This allows customers to reduce the number of configurations managed on a worldwide basis, thereby reducing their costs. They also enable companies to implement global IT standards by locking in specific product configurations worldwide.

Device Guard (DG) and Credential Guard (CG) are the new security features that are only available on Windows 10 Enterprise today.

Device Guard is a combination of enterprise-related hardware and software security features that, when configured together, will lock a device down so that it can only run trusted applications. If it is not a trusted application, it cannot run.

Credential Guard uses virtualization-based security to isolate secrets (credentials) so that only privileged system software can access them. Unauthorized access to these secrets can lead to credential theft attacks. Credential Guard prevents these attacks by protecting NTLM password hashes and Kerberos Ticket Granting Tickets.

NOTE: Processor numbers are not a measure of performance. Processor availability is subject to change and may vary by region/country.

**Table 4. Processors** 

Processors	Wattage	Core count	Thre ad coun t	Speed	Cache	Integrated graphics	GSP	DG/CG Ready
10th Generation Intel Core i3-10100	65 W	4	8	3.6 GHz to 4.3 GHz	6 MB	Intel UHD Graphics 630		
10th Generation Intel Core i5-10500	65 W	6	12	3.1 GHz to 4.5 GHz	12 MB	Intel UHD Graphics 630		
10th Generation Intel Core i5-10600	65 W	6	12	3.3 GHz to 4.8 GHz	12 MB	Intel UHD Graphics 630		
10th Generation Intel Core i7-10700	65 W	8	16	2.9 GHz to 4.7 GHz	16 MB	Intel UHD Graphics 630		
10th Generation Intel Core i9-10900	65 W	10	20	2.8 GHz to 4.6 GHz	20 MB	Intel UHD Graphics 630		
Intel Xeon W-1250	80 W	6	12	3.3 GHz to 4.4 GHz	12 MB	Intel UHD Graphics 630		

Table 4. Processors(continued)

Processors	Wattage	Core count	Thre ad coun t	Speed	Cache	Integrated graphics	GSP	DG/CG Ready
Intel Xeon W-1270	80 W	8	16	3.2 GHz to 4.7 GHz	16 MB	Intel UHD Graphics 630		
Intel Xeon W-1290	80 W	10	20	3.7 GHz to 4.9 GHz	20 MB	Intel UHD Graphics 630		

### **Operating system**

- · Windows 10 Home (64-bit)
- · Windows 10 Enterprise (64-bit)
- · Windows 10 Professional (64-bit)
- · Windows 10 Pro Education (64-bit)
- · Windows 10 LTSC (64-bit)
- · Ubuntu 18.04

### **Memory**

**Table 5. Memory specifications** 

Description	Values		
Slots	4 DIMM slots		
Туре	DDR4		
Speed	2666 MHz for Intel Core i3/i5/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1270/W-1290 processors		
Maximum memory	128 GB		
Minimum memory	4 GB		
Memory size per slot	4 GB, 8 GB, 16 GB, 32 GB		
Configurations supported	<ul> <li>4 GB, 1 x 4 GB, DDR4, 2666 MHz for Intel Core i3/i5/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1270/W-1290 processors</li> <li>8 GB, 2 x 4 GB, DDR4, 2666 MHz for Intel Core i3/i5/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1270/W-1290 processors</li> <li>8 GB, 1 x 8 GB, DDR4, 2666 MHz for Intel Core i3/i5/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1270/W-1290 processors</li> <li>16 GB, 2 x 8 GB, DDR4, 2666 MHz for Intel Core i3/i5/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1270/W-1290 processors</li> <li>32 GB, 4 x 8 GB, DDR4, 2666 MHz for Intel Core i3/i5/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1270/W-1290 processors</li> <li>32 GB, 2 x 16 GB, DDR4, 2666 MHz for Intel Core i3/i5/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1270/W-1290 processors</li> </ul>		

Table 5. Memory specifications(continued)

Description	Values
	<ul> <li>64 GB, 4 x 16 GB, DDR4, 2666 MHz for Intel Core i3/i5/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1270/W-1290 processors</li> <li>128 GB, 4 x 32 GB, DDR4, 2666 MHz for Intel Core i3/i5/Xeon W-1250 processors, 2933 MHz for Intel Core i7/i9/Xeon W-1270/W-1290 processors</li> </ul>

### **Storage**

Your computer supports one of the following configurations:

- · One 2.5-inch hard-disk drive
- · Two 2.5-inch hard-disk drives
- · One 3.5-inch hard-disk drive
- · One 2.5-inch hard-disk drive and one 3.5-inch hard-disk drive
- · One M.2 2230 or 2280 solid-state drive (class 40)
- · One M.2 2230 or 2280 solid-state drive (class 40) and one 3.5-inch hard-disk drive
- · One M.2 2230 or 2280 solid-state drive (class 40) and one 2.5-inch hard-disk drive
- · One M.2 2230 or 2280 solid-state drive (class 40) and two 2.5-inch hard-disk drives

#### Table 6. Storage specifications

Storage type	Interface type	Capacity
2.5 in. hard-disk drive, 5400 RPM	SATA	Upto 2 TB
2.5 in. hard-disk drive, 7200 RPM	SATA	Upto 1 TB
2.5 in. hard-disk drive, 7200 RPM, FIPS Self Encrypting Opal 2.0	SATA	Upto 500 GB
3.5 in, hard-disk drive, 5400 RPM	SATA	Upto 4 TB
3.5 in, hard-disk drive, 7200 RPM	SATA	Upto 2 TB
M.2 2280 solid-state drive	Gen 3 PCIe x4 NVMe, Class 40	Upto 2 TB
M.2 2280 Opal Self-Encrypting solid-state drive	Gen 3 PCle x4 NVMe, Class 40	Upto 1 TB

### **Audio and Speaker**

#### Table 7. Audio specifications

Description	Values
Туре	4 Channel High Definition Audio
Controller	Realtek ALC3246
Stereo conversion	Supported
Internal interface	High definition audio interface
External interface	Universal Audio Jack
Speakers	2

#### Table 7. Audio specifications (continued)

Description	Values
Internal speaker amplifier	Integrated in ALC3246 (Class-D 2 W)
External volume controls	Keyboard shortcut controls
Speaker output average	2 W
Speaker output peak	2.5 W
Subwoofer output	Not Supported
Microphone	Not Supported

### Video

#### **Table 8. Discrete graphics specifications**

Discrete graphics			
Controller	External display support	Memory size	Memory Type
AMD Radeon R5 430	<ul><li>1 DisplayPort 1.4</li><li>1 DVI port</li></ul>	2 GB	DDR3
AMD Radeon Pro WX 2100	<ul><li>1 DisplayPort 1.4</li><li>2 Mini DisplayPort 1.4</li></ul>	2 GB	GDDR5
AMD Radeon Pro WX 3200	· 4 Mini DisplayPort 1.4	4 GB	GDDR5
NVIDIA Quadro P400	· 3 Mini DisplayPort 1.4	2 GB	GDDR5
NVIDIA Quadro P620	· 4 Mini DisplayPort 1.4	2 GB	GDDR5

#### Table 9. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD Graphics 630	Two DisplayPort 1.4	Shared system memory	10th Generation Intel Core i3/i5/i7/i9

### **Communications**

### **Ethernet**

#### **Table 10. Ethernet specifications**

Description	Values
Model number	Intel i219-LM
Transfer rate	10/100/1000 Mbps

### Wireless module

Table 11. Wireless module specifications

Description	Values		
Model number	Qualcomm QCA61x4a (DW1820)	Intel AX201	
Transfer rate	Up to 867 Mbps	Up to 2400 Mbps	
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	
Wireless standards	<ul> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> </ul>	<ul> <li>Wi-Fi 802.11a/b/g</li> <li>Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>Wi-Fi 5 (Wi-Fi 802.11ac)</li> <li>Wi-Fi 6 (Wi-Fi 802.11ax)</li> </ul>	
Encryption	<ul><li>64-bit/128-bit WEP</li><li>AES-CCMP</li><li>TKIP</li></ul>	<ul><li>64-bit/128-bit WEP</li><li>AES-CCMP</li><li>TKIP</li></ul>	
Bluetooth	Bluetooth 5.0	Bluetooth 5.1	

### Ports and connectors

Table 12. Ports and connectors

Description	Values
External:	
Network	1 RJ-45
USB	<ul> <li>One USB 2.0 Type-A port (front)</li> <li>One USB 2.0 Type-A with PowerShare (front)</li> <li>One USB 3.2 Gen 2 Type-A (front)</li> <li>One USB 3.2 Gen 2 Type-C port with PowerDelivery (front)</li> <li>Two USB 2.0 ports with Power On (rear)</li> <li>One USB 2.0 header for Comon Access Card (CAC)</li> <li>Three USB 3.2 Gen 1 Type-A ports (rear)</li> <li>One USB 3.2 Gen 2 Type-A ports (rear)</li> </ul>
Audio	<ul><li>One Universal Audio Jack (front)</li><li>One Line -in/out retasking (rear)</li></ul>
Video	<ul> <li>Two DisplayPort 1.4 port (rear)</li> <li>One HDMI 2.0 port (rear, optional)</li> <li>One VGA port (rear, optional)</li> <li>One Type-C w/DP-Alt mode (rear optional)</li> </ul>
Memory card reader	One SD-card 4.0 slot
Power port	AC-in
Security	<ul> <li>One Wedge-shaped lock</li> <li>One Padlock Loop</li> <li>One Lockable Port Cover</li> <li>One Intrusion switch</li> </ul>

#### Table 12. Ports and connectors(continued)

Description	Values
Internal:	
M.2	<ul> <li>One half-height Gen3 PCle x16 slot (discrete graphics)</li> <li>One half-height Gen3 PCle x4 slot</li> <li>Three SATA 3.0 for Hard-disk drive/Solid-state drive</li> <li>One M.2 2230 slot for WiFi/Bluetooth card</li> <li>One M.2 2230/2280 slot for solid-state drive</li> <li>One M.2 2230 slot for PCle solid-state drive</li> </ul>
	NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626.

### **Power supply**

#### Table 13. Power supply

Feature	Specifications
Input voltage	100-240 VAC, 50-60 Hz
Wattage	<ul><li>200 W 100V-240V Full range</li><li>260 W 100V-240V Full range</li></ul>

### **Security**

#### **Table 14. Security**

Feature	Description
Trusted Platform Module (TPM) 2.0	Integrated on the system board
Firmware TPM	Optional
Windows Hello Support	Optional via security input device
Cable cover	Optional
Chassis intrusion switch	Standard
Dell Smartcard Keyboard	Optional
Chassis lock slot and loop support	Standard

### **Security Software**

#### **Table 15. Security Software**

Features	Description
Dell Endpoint Security Suite Enterprise	Optional
Dell Data Guardian	Optional

Table 15. Security Software(continued)

Features	Description
Dell Encryption (Enterprise or Personal)	Optional
Dell Threat Defense	Optional
RSA SecurID Access	Optional
RSA NetWitness Endpoint	Optional
MozyPro or MozyEnterprise	Optional
VMware Airwatch/WorkspaceONE	Optional
Absolute Data & Device Security	Optional

### **CAC/PIV Module**

#### Table 16. CAC/PIV Module

Features	Tower/Small Form Factor/Micro	
Connector Type	ISO 7816 compliant contact smart card NFC forum 2.0	
РСВ		
Dimensions (W x L x T)	74.5 mm x 45.7 mm	
Layer	6	
Controller Details		
Controller bus architecture (example PCle 1.0a x1)	USB 2.0	
Data transfer mode (example Bus-Master DMA)	USB 2.0	
Power consumption (full operation per data rate connection speed)	288.08 mA x 3.3 V	
Power consumption (standby operation)	8.9 mA x 3.3 V	
Standard compliance (example 802.1P)	NFC Forum 2.0, ISO7816	
Hardware Certifications (example FCC, B, GS mark)	FIPS201, FIPS140-2	
Boot ROM Support	Integrated inside Lynx SoC	
Processor/Chipset		
NFC	Broadcom Cortex-M3 BC58102	
Card reader driver	NXP TDA8034HN/C2	
USB 2.0 Hub	GENESYS GL850G-OHY50	
PROM	WINBOND W25Q32JVSSIQ 32M/bit	

#### Table 16. CAC/PIV Module (continued)

Features	Tower/Small Form Factor/Micro	
Power IC	RICHTEK RT5796AHGJ5	
Power LDO (NFC VBAT)	GMT G9141T11U	
Environmental		
Operating System Driver Support	Dell ControlVault2 Driver	
Manageability (examples WOL, PXE)	No, this is not a LAN controller chipset.	
Management Capabilities Alerting (example ASF 2.0)	No, this is not a LAN controller chipset.	
Add-in Slots		
Card reader connector	1 (10 PIN)	
USB 2.0 header	1 (5 PIN)	
NFC header	1 (6 PIN)	

# Out of Band Systems Management Intel Standard Manageability

Intel Standard Manageability (ISM) must be configured in our factory at the time of purchase, as it is NOT field upgradable. ISM offers out-of-band management and DASH compliance <a href="https://registry.dmtf.org/registry/results/field\_initiative\_name%3A%22DASH%201.0%22">https://registry.dmtf.org/registry/results/field\_initiative\_name%3A%22DASH%201.0%22</a>. ISM offers a limited set of out-of-band features like remote power on/off, Serial-over-LAN redirect, Wake-on-LAN, etc. ISM leverages the same capabilities that were available with Intel's Active Management Technology (AMT) version 5.0.

To learn more about Intel ISM, visit Intel's website at: https://software.intel.com/en-us/blogs/2009/03/27/what-is-standard-manageability

### **Computer environment**

Airborne contaminant level: G1 as defined by ISA-S71.04-1985

#### **Table 17. Computer environment**

Description	Operating	Storage
Temperature range	10°C-35°C (50°F-95°F)	-40°C-65°C (-40°F-149°F)
Relative humidity (maximum)	20% to 85% (non-condensing)	5% to 95% (non-condensing)
Vibration (maximum)*	0.52 GRMS random at 5 Hz to 350 Hz	2.0 GRMS random at 5 Hz to 350 Hz
Shock (maximum)	Bottom half-sine pulse with a change in velocity of 50.8 cm/sec (20 in./sec)	105G half-sine pulse with a change in velocity of 133 cm/sec (52.5 in./sec)
Altitude (maximum)	3048 m (10,000 ft)	10,668 m (35,000 ft)

 $<sup>\</sup>ensuremath{^{*}}$  Measured using a random vibration spectrum that simulates user environment.

 $<sup>\</sup>ensuremath{\dagger}$  Measured using a 2 ms half-sine pulse when the hard drive is in use.

### Service and support

NOTE: For more details on Dell Service Plans, see https://www.dell.com/learn/us/en/19/services/warranty-support-services.

#### Table 18. Warranty

Warranty
1 Year Basic Warranty with Hardware Service on site service after remote diagnosis
2 Years Basic Warranty Extension
3 Years Basic Warranty Extension
4 Years Basic Warranty Extension
5 Years Basic Warranty Extension
1 Year ProSupport and Next Business Day on-site service
2 Years ProSupport and Next Business Day on-site service
3 Years ProSupport and Next Business Day on-site service
4 Years ProSupport and Next Business Day on-site service
5 Years ProSupport and Next Business Day on-site service
1 Year ProSupport Plus for Client with Next Business Day on-site service
2 Years ProSupport Plus for Client with Next Business Day on-site service
3 Years ProSupport Plus for Client with Next Business Day on-site service
4 Years ProSupport Plus for Client with Next Business Day on-site service
5 Years ProSupport Plus for Client with Next Business Day on-site service

#### Table 19. Accidental damage services

Accidental Damage Services
Year Accidental Damage Service
Years Accidental Damage Service
Years Accidental Damage Service
Years Accidental Damage Service
Years Accidental Damage Service

### **Support policy**

For more information on support policy, see the knowledge base articles PNP13290, PNP18925, and PNP18955.

### **Energy Star and Trusted Platform Module (TPM)**

#### Table 20. Energy Star and TPM

Features	Specifications
TPM (Optional)	HW/FW Trusted Platform Module support

### **Accessories**

#### **Table 21. Accessories**

Accessories		
Audio	Dell Pro Stereo Headset - UC350	
Keyboard and Mice	Dell Wireless Keyboard and Mouse, KM636, Black	
Monitors	Dell 24 Monitor - E2420HS	
Stands and Mounts	<ul> <li>Dell Dual Monitor Arm - MDA20</li> <li>Dell Dual Monitor Stand - MDS19</li> <li>Dell Single Monitor Arm - MSA20</li> </ul>	

### **Add-in cards**

#### Table 22. Add-in cards

Add-in cards
Serial and parallel port PCle card

### **Getting help**

#### **Topics:**

Contacting Dell

### **Contacting Dell**

#### **Prerequisites**

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

#### About this task

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

#### Steps

- 1. Go to Dell.com/support.
- 2. Select your support category.
- 3. Verify your country or region in the Choose a Country/Region drop-down list at the bottom of the page.
- 4. Select the appropriate service or support link based on your need.