Precision 3561

Setup and Specifications



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 Precision 3561

- i NOTE: The images in this document may differ from your computer depending on the configuration you ordered.
- 1. Connect the power adapter and press the power button.



- NOTE: To conserve battery power, the battery might enter power saving mode. Connect the power adapter and press the power button to turn on the computer.
- 2. 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.
- 3. Locate and use Dell apps from the Windows Start menu—Recommended.

Table 1. Locate Dell apps

Resources	Description
	Dell Product Registration Register your computer with Dell.

Table 1. Locate Dell apps (continued)

Resources	Description
	Dell Help & Support Access help and support for your computer.
	SupportAssist
	SupportAssist is the smart technology that keeps your computer running at its best by optimizing settings, detecting issues, removing viruses and notifies when you need to make system updates. SupportAssist proactively checks the health of your system's hardware and software. When an issue is detected, the necessary system state information is sent to Dell to begin troubleshooting. SupportAssist is preinstalled on most of the Dell devices running Windows operating system. For more information, see SupportAssist for Home PCs User's Guide on www.dell.com/serviceabilitytools. i NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.
	Dell Update
S	Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the knowledge base article SLN305843 at www.dell.com/support.
	Dell Digital Delivery Download software applications, which are purchased but not pre-installed on your computer. For more information about using Dell Digital Delivery, see the knowledge base article 153764 at www.dell.com/support.

Views of Precision 3561

Topics:

- Right
- Left
- Display
- Bottom
- Palmrest
- Service Tag location
- Battery charge and status LED

Right



- 1. Universal SD card reader
- 2. Universal audio port
- 3. USB 3.2 Gen 1 port
- 4. USB 3.2 Gen 1 port with PowerShare
- **5.** HDMI 2.0 port
- 6. RJ-45 Ethernet port
- 7. Wedge-shaped lock slot

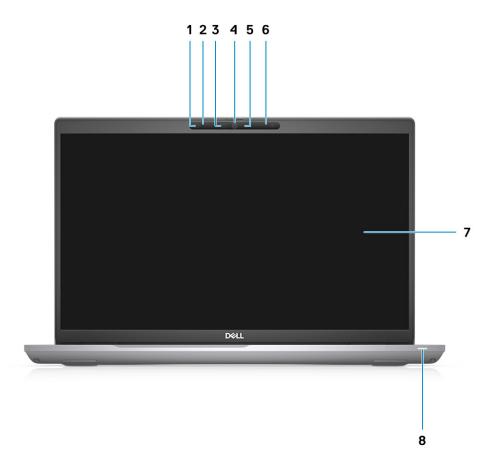
Left



- USB4.0 Type-C port with DisplayPort 2.0 port/Power Delivery/Thunderbolt
- 3. Fan Vents

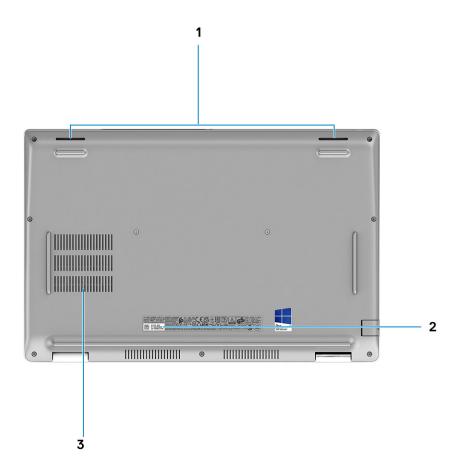
- 2. USB4.0 Type-C port with DisplayPort 2.0 port/Power Delivery/Thunderbolt
- 4. Smart card reader (Optional)

Display



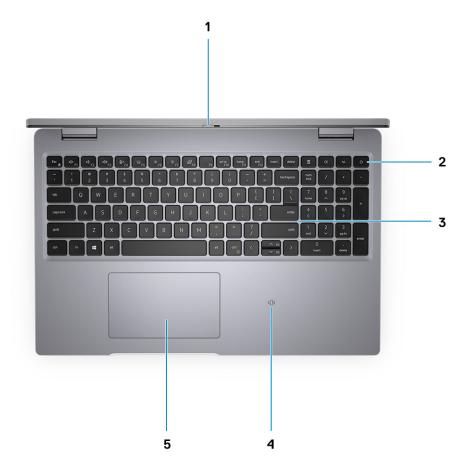
- 1. Proximity sensor (optional)
- 2. Microphone
- 3. IR LED (optional)
- 4. RGB camera/ RGB IR camera (optional)
- 5. Camera indicator LED (optional)
- 6. Microphone
- 7. LCD panel
- 8. LED activity light

Bottom



- 1. Speakers
- 2. Service tag label
- 3. Fan vents

Palmrest



- 1. Camera shutter
- 2. Power button with fingerprint reader (optional)
- Keyboard
- 4. Contactless smart card reader (Optional)
- 5. Clickpad

Service Tag location

The service tag is a unique alphanumeric identifier that allows Dell service technicians to identify the hardware components in your system and access warranty information.

Battery charge and status LED

Table 2. Battery charge and status LED Indicator

Power Source	LED Behavior	computer Power State	Battery Charge Level
AC Adapter	Off	S0 - S5	Fully Charged
AC Adapter	Solid White	S0 - S5	< Fully Charged
Battery	Off	S0 - S5	11-100%
Battery	Solid Amber (590+/-3 nm)	S0 - S5	< 10%

- S0 (ON) Computer is turned on.
- S4 (Hibernate) The computer consumes the least power compared to all other sleep states. The computer is almost at an OFF state, expect for a trickle power. The context data is written to hard drive.
- S5 (OFF) The computer is in a shutdown state.

Specifications of Precision 3561

Topics:

- Dimensions and weight
- Processor
- Chipset
- Operating system
- Memory
- External ports
- Internal slots
- Wireless module
- WWAN module
- Audio
- Storage
- Media-card reader
- Keyboard
- Clickpad
- Camera
- Power adapter
- Battery
- Display
- Fingerprint reader (optional)
- GPU—Integrated
- GPU—Discrete
- Sensor and control specifications
- Security
- Security options—Contacted smartcard reader
- Security options—Contactless smartcard reader
- Security Software
- Computer environment

Dimensions and weight

The following table lists the height, width, depth, and weight of your Precision 3561.

Table 3. Dimensions and weight

Description	Values
Height:	
Front height	22.67 mm (0.89 in.)
Rear height	24.05 mm (0.95 in.)
Width	357.80 mm (14.09 in.)
Depth	233.30 mm (9.19 in.)
Weight (minimum)	1.79 kg (3.95 lb)

Table 3. Dimensions and weight (continued)

Description	Values	
	(i) NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	

Processor

The following table lists the details of the processors supported by your Precision 3561

Table 4. Processor

Description	Option one	Option two	Option three	Option Four	Option Five	Option Six
Processor type	11 th Generation Intel Core i5-11400H	11 th Generation Intel Core i5-11500H	11 th Generation Intel Core i7-11800H	11 th Generation Intel Core i7-11850H	11 th Generation Intel Core i9-11950H	11 th Generation Intel Xeon W-11855M
Processor wattage	45 W	45 W				
Processor core count	6	6	8	8	8	6
Processor thread count	12	12	16	16	16	12
Processor speed	2.70 GHz to 4.50 GHz	2.90 GHz to 4.60 GHz	2.30 GHz to 4.60 GHz	2.50 GHz to 4.80 GHz	2.60 GHz to 5.00 GHz	3.20 GHz to 4.90 GHz
Processor cache	12 MB	12 MB	24 MB	24 MB	24 MB	18 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics				

Chipset

The following table lists the details of the chipset supported by your Precision 3561.

Table 5. Chipset

Description	Values	
Chipset	Intel WM590	
Processor	11 th Generation Intel Core i5/i7/i9/Xeon	
DRAM bus width	Two channels, 64-bit	
Flash EPROM	32 MB	
PCIe bus	Up to Gen 3.0	

Operating system

Your Precision 3561 supports the following operating systems:

- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit

• Ubuntu Linux 20.04 LTS

Memory

The following table lists the memory specifications of your Precision 3561.

Table 6. Memory specifications

Description	Values	
Memory slots	Dual-channel	
Memory type	DDR4	
Memory speed	3200 MHz	
Maximum memory configuration	64 GB	
Minimum memory configuration	8 GB	
Memory size per slot	8 GB, 16 GB, 32 GB	
Memory configurations supported	 8 GB, 1 x 8 GB, DDR4, 3200 MHz 16 GB, 1 x 16 GB, DDR4, 3200 MHz 16 GB, 2 x 8 GB, DDR4, 3200 MHz 32 GB, 1 x 32 GB, DDR4, 3200 MHz 32 GB, 2 x 16 GB, DDR4, 3200 MHz 64 GB, 2 x 32 GB, DDR4, 3200 MHz 	

External ports

The following table lists the external ports of your Precision 3561.

Table 7. External ports

Description	Values	
Network port	One RJ-45 port	
USB ports	 One USB 3.2 Gen 1 port One USB 3.2 Gen 1 port with PowerShare Two USB4.0 Type-C port with DisplayPort 2.0 port/Pow Delivery/Thunderbolt 	
Audio port	One Universal Audio Jack	
Video port	One HDMI 2.0 port	
Media-card reader	One microSD card slot	
Power-adapter port	DC-in USB Type-C	
Security-cable slot	One Wedge-shaped lock slot	

Internal slots

The following table lists the internal slots of your Precision 3561.

Table 8. Internal slots

Description	Values
M.2	 Two M.2 2230 slots for solid-state drive 128 GB/256 GB/512 GB Two M.2 2280 slots for solid-state drive 256 GB/512 GB/1 TB/2 TB Two M.2 2280 slots for Self-Encrypting solid-state drive 256 GB/512 GB /1 TB One M.2 2280 slots for 32 GB Intel® Optane™ Memory + 512 GB QLC 3D NAND

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your Precision 3561.

Table 9. Wireless module specifications

Description	Option one	Option two	Option three
Model number	Qualcomm QCA61x4A	Intel AX201	Intel AX210
Transfer rate	Up to 867 Mbps	Up to 2400 Mbps	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	2.4 GHz/5 GHz/6 GHz
Wireless standards	Wi-Fi 802.11a/b/gWiFi 802.11nWiFi 802.11ac	 Wi-Fi 802.11a/b/g Wi-Fi 4 (WiFi 802.11n) Wi-Fi 5 (WiFi 802.11ac) Wi-Fi 6 (WiFi 802.11ax) 	 Wi-Fi 802.11a/b/g Wi-Fi 4 (WiFi 802.11n) Wi-Fi 5 (WiFi 802.11ac) Wi-Fi 6E (WiFi 802.11ax)
Encryption	64-bit and 128-bit WEP128-bit AES-CCMPTKIP	64-bit and 128-bit WEP128-bit AES-CCMPTKIP	64-bit and 128-bit WEP128-bit AES-CCMPTKIP
Bluetooth	5.0	5.2	5.2

WWAN module

The following table lists the Wireless Wide Area Network (WWAN) module supported on your Precision 3561.

Table 10. WWAN module specifications

Description	Values	
Model number	Intel 7360 (DW5820e)	
Transfer rate	Up to 450 Mbps DL/50 Mbps UL (Cat 9)	
Frequency bands supported	(1, 2, 3, 4, 5, 7, 8, 11, 12, 13, 17, 18, 19, 20, 21, 26, 28, 29, 30, 38, 39, 40, 41, 66), HSPA+ (1, 2, 4, 5, 8)	
Wireless standards	LTE Category 16UMTS/HSPA+	
Encryption	Not supported	
Global Navigation Satellite System (GNSS)	Supports GPS, BDS, and GLONASS	
(i) NOTE: For instructions on how to find your computer's IMEI (International Mobile Station Equipment Identity) number,		

NOTE: For instructions on how to find your computer's IMEI (International Mobile Station Equipment Identity) number, see the knowledge base article 000143678 at www.dell.com/support.

Audio

The following table lists the audio specifications of your Precision 3561.

Table 11. Audio specifications

Description	Values
Audio controller	Realtek ALC3204 with Waves MaxxAudio Pro
Stereo conversion	24-bit DAC (Digital-to-Analog) and ADC (Analog-to-Digital)
Internal audio interface	Intel HDA (high-definition audio)
External audio interface	Universal audio jack
Number of speakers	2
Internal-speaker amplifier	Supported (audio codec integrated)
External volume controls	Keyboard shortcut controls
Speaker output:	
Average speaker out	2 W
Peak speaker output	2.5 W
Subwoofer output	Not supported
Microphone	Dual-array microphones

Storage

This section lists the storage options on your Precision 3561.

Your computer supports one of the following configurations:

- One 2.5-inch hard drive
- Two M.2 2230/2280 solid state drive

The primary drive of your computer varies with the storage configuration. For computers:

- with a M.2 drive, the M.2 drive is the primary drive
- without a M.2 drive, the 2.5-inch hard drive is the primary drive

Table 12. Storage specifications

Storage type	Interface type	Capacity
2.5-inch 5400 rpm SATA hard-disk drive	SATA AHCI, up to 6 Gbps	up to 2 TB
2.5-inch 7200 rpm SATA hard-disk drive	SATA AHCI, up to 6 Gbps	up to 1 TB
2.5-inch 7200 rpm SED SATA hard-disk drive	SATA AHCI, up to 6 Gbps	500 GB
M.2 2230 solid-state drive PCle NVMe	PCle Gen3x4 NVMe, up to 32 Gbps	up to 512 GB
M.2 2280 solid-state drive PCle NVMe	PCle Gen3x4/Gen4x4 NVMe, up to 32 Gbps	up to 2 TB
M.2 2280 Opal Self Encrypting solid- state drive PCle NVMe	PCIe Gen3x4 NVMe, up to 32 Gbps	1 TB

Media-card reader

The following table lists the media cards supported by your Precision 3561.

Table 13. Media-card reader specifications

Description	Values
Media-card type	microSD card slot
Media-cards supported	 Micro Secure Digital (mSD) Micro Secure Digital High Capacity (mSDHC) Micro Secure Digital Extended Capacity (mSDXC)
NOTE: The maximum capacity supported installed in your computer.	d by the media-card reader varies depending on the standard of the media card

Keyboard

The following table lists the keyboard specifications of your Precision 3561.

Table 14. Keyboard specifications

Description	Values	
Keyboard type	Standard keyboardRGB backlit keyboard	

Table 14. Keyboard specifications (continued)

Description	Values	
Keyboard layout	QWERTY	
Number of keys	United States and Canada: 102 keysUnited Kingdom: 103 keysJapan: 106 keys	
Keyboard size	X=18.6 mm key pitch Y=19.05 mm key pitch	
Keyboard shortcuts	Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key. (i) NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program. Keyboard shortcuts	

Clickpad

The following table lists the Clickpad specifications of your Precision 3561.

Table 15. Clickpad specifications

Description		Values	
Clickpad resolution:		>300 dpi	
Clickpad dimensions:			
	Horizontal	115 mm (4.53 in.)	
	Vertical	67 mm (2.64 in.)	
Clickpad gestures		For more information about Clickpad gestures available on Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com.	

Camera

The following table lists the camera specifications of your Precision 3561.

Table 16. Camera specifications

Description	Option 1	Option 2	Option 3
Number of cameras	per of cameras One		One
Camera type	RGB HD camera	HD RGB + Ir camera	FHD RGB + Ir camera, proximity sensor/express sign-in
Camera location	Front camera	Front camera	Front camera
Camera sensor type	CMOS sensor technology	CMOS sensor technology	CMOS sensor technology

Table 16. Camera specifications (continued)

Des	scription	Option 1	Option 2	Option 3
Car	mera resolution:			
	Still image	8 megapixel	0.92 megapixel	2.07 megapixels
	Video	1280 x 720 (VGA/HD) at 30 fps	1280 x 720 (HD) at 30 fps	1920 x 1080 (FHD) at 30 fps
	rared camera olution:			
	Still image	N/A	0.23	0.23
	Video	N/A	640 x 360 at 15 fps	640 x 360 at 15 fps
Dia _e	gonal viewing gle:			
	Camera	78.6 degrees	87 degrees	87.60 degrees
	Infrared camera	87 degrees	87 degrees	87.60 degrees

Power adapter

The following table lists the power adapter specifications of your Precision 3561.

Table 17. Power adapter specifications

Description	Option one	Option two	
Туре	90 W AC adapter, USB-C i NOTE: 90 W is supported only in UMA configuration.	130 W AC adapter, USB-C	
Input voltage	100 VAC x 240 VAC	100 VAC x 240 VAC	
Input frequency	50 Hz x 60 Hz	50 Hz x 60 Hz	
Input current (maximum)	1.50 A	1.80 A	
Output current (continuous)	 20 V/4.50 A 15 V/3 A 9 V/3 A 5 V/ 3 A 	20 V/6.50 A5 V/1 A	
Rated output voltage	20 VDC/15 VDC/9 VDC/5 VDC	20 VDC/5 VDC	
Weight	0.64 lbs (0.29 kg)	0.77 lbs (0.35 kg)	
Dimensions (inches)	0.87 x 2.60 x 5.12	0.87 x 2.60 x 5.63	
Dimensions (mm)	22 x 66 x 130	22 x 66 x 143	
Temperature range:			
Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	
Storage	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	

Table 17. Power adapter specifications (continued)

Desc	ription	Option one	Option two
		CAUTION: Operating and storage to components, so operating or storin impact the performance of specific	g the device outside these ranges may

Battery

The following table lists the battery specifications of your Precision 3561.

Table 18. Battery specifications

Descri	ption	Option one	Option two	Option three
Battery	/ type	4-cell 64 WHr, Polymer, Long Cycle Life, ExpressCharge capable	4-cell 64 WHr, Polymer, non- Long Cycle Life, ExpressCharge capable	6 Cell 97 WHr ExpressCharge capable
Battery	voltage	15.20 V	15.20 V	11.40 VDC
Battery	weight (maximum)	0.283 kg (0.62 lb)	0.283 kg (0.62 lb)	0.429 kg (0.95 lb)
Battery	/ dimensions:	<u> </u>		
	Height	7.60 mm	7.60 mm	7.70 mm
	Width	226.60 mm	226.60 mm	332 mm
	Depth	81.40 mm	81.40 mm	82.00 mm
Tempe	rature range:			
	Operating	 Charge: 0 °C to 45 °C, 32 °F to 113 °F Discharge: 0 °C to 70 °C, 32 °F to 158 °F 	 Charge: 0	0°C to 50°C (32°F to 122°F)
	Storage	-20°C (-4°F) to 65°C (149°F)	-20°C (-4°F) to 65°C (149°F)	-20°C to 60°C (-4°F to 140°F)
Battery	n operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power- intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

Table 18. Battery specifications (continued)

Description	Option one	Option two	Option three
Battery charging time (approximate)	4Hrs hours (when the computer is off) (i) NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, Me and My Dell on www.dell.com/	4Hrs hours (when the computer is off) i NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, Me and My Dell on www.dell.co m/	4 Hrs hours (when the computer is off) (i) NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, Me and My Dell on www.dell.com/
Approximate life span (discharge/charge cycles)	1 year warranty	• 3 years warranty	1 year warranty
Coin-cell battery	CR2032	CR2032	CR2032

Display

The following table lists the display specifications of your Precision 3561.

Table 19. Display specifications

Descr	iption	Option one	Option two	Option three	Option four	Option five
Displa [,]	y type	High Definition (HD)	Full High Definition (FHD)	Full High Definition (FHD) Touch	Full High Definition (FHD), Super Low Power (SLP), Low Blue Light	Ultra High Definition (UHD), Super Low Power (SLP), Low Blue Light
Displatechno	y-panel ology	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)	Wide-Viewing Angle (WVA)
	y-panel sions (active					
	Height	193.60 mm (7.62 in.)	193.60 mm (7.62 in.)	193.60 mm (7.62 in.)	193.60 mm (7.62 in.)	193.60 mm (7.62 in.)
	Width	344.20 mm (13.55 in.)	344.20 mm (13.55 in.)	344.20 mm (13.55 in.)	344.20 mm (13.55 in.)	344.20 mm (13.55 in.)

Table 19. Display specifications (continued)

Description	Option one	Option two	Option three	Option four	Option five
Diagonal	394.91 mm (15.55 in.)	394.91 mm (15.55 in.)	394.91 mm (15.55 in.)	394.91 mm (15.55 in.)	394.91 mm (15.55 in.)
Display-panel native resolution	1366×768	1920 x 1080	1920 x 1080	1920 x 1080	3840 x 2160
Luminance (typical)	220 nits	250 nits	250 nits	400 nits	400 nits
Megapixels	1049088	2073600	2073600	2073600	8.3
Color gamut	NTSC 45%	NTSC 45%	NTSC 45%	sRGB 100%	sRGB 100%
Pixels Per Inch (PPI)	100	141	141	141	140
Contrast ratio (typ)	500:1	700:1	700:1	700:1	800:1
Response time (min)	25 ms	25 ms	35 ms	35 ms	35 ms
Refresh rate	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Horizontal view angle	40/40 +/- degrees	80/80 +/- degrees	80/80 +/- degrees	80/80 +/- degrees	80 minimum
Vertical view angle	10(U)/30(D) +/- degrees	80(U)/80(D) +/- degrees	80(U)/80(D) +/- degrees	80(U)/80(D) +/- degrees	80 minimum
Pixel pitch	0.252X0.252 mm	0.179X0.179 mm	0.179X0.179 mm	0.179X0.179 mm	0.161 x 0.161
Power consumption (maximum)	4.20 W	4.2 W	4.2 W	4.6 W	3.50 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare	Anti-glare	Anti-glare	Anti-glare
Touch options	No	No	Yes	No	No

Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Precision 3561.

Table 20. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Capacitive
Fingerprint-reader sensor resolution	508 dpi
Fingerprint-reader sensor pixel size	256 x 360

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Precision 3561.

Table 21. GPU—Integrated

Controller	Memory size	Processor
Intel UHD Graphics	Shared system memory	11 th Generation Intel core i5/i7/i9/Xeon
TBD	TBD	TBD

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Precision 3561.

Table 22. GPU—Discrete

Controller	External display support	Memory size	Memory type
NVIDIA Quadro T600	HDMI 2.0 port/ USB Type-C with DisplayPort 2.0 port	4 GB	GDDR6
NVIDIA Quadro T1200	HDMI 2.0 port/ USB Type-C with DisplayPort 2.0 port BD	4 GB	GDDR6

Sensor and control specifications

Table 23. Sensor and control specifications

Specifications
1. Accelerometer: One on the system board
2. Accelerometer with Gyro: On the hinge-up (optional)
3. GPS (via WWAN Card only) (optional)
4. Proximity sensor (optional)

Security

Table 24. Security specifications

Features	Specifications
Trusted Platform Module (TPM) 2.0	Integrated on system board
Fingerprint reader	Optional
Wedge-shaped lock slot	Standard

Security options—Contacted smartcard reader

Table 25. Contacted smartcard reader

Title	Description	Dell ControlVault 3 Smartcard reader
ISO 7816 -3 Class A Card Support	Reader capable of reading 5V powered smartcard	Yes
ISO 7816 -3 Class B Card Support	Reader capable of reading 3V powered smartcard	Yes
ISO 7816 -3 Class C Card support	Reader capable of reading 1.8V powered smartcard	Yes
ISO 7816-1 Compliant	Specification for the reader	Yes
ISO 7816 -2 Compliant	Specification for smartcard device physical characteristics (size, location of connection points, etc.)	Yes
T=0 support	Cards support character level transmission	Yes
T=1 support	Cards support block level transmission	Yes
EMVCo Compliant	Compliant with EMVCo (for electronic payment standards) smartcard standards as posted to www.emvco.com	Yes
EMVCo Certified	Formally certified based on EMVCO smartcard standards	Yes
PC/SC OS interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for OS level drivers.	Yes
Windows Certified	Device certified by WHCK	Yes
FIPS 201 (PIV/HSPD-12) Compliant via GSA	Device compliant with FIPS 201/PIV/ HSPD-12 requirements	Yes

Security options—Contactless smartcard reader

Table 26. Contactless smartcard reader

Title	Description	Dell ControlVault 3 Contactless Smartcard reader with NFC
Felica Card Support	Reader and software capable of supporting Felica contactless cards	Yes
ISO 14443 Type A Card Support	Reader and software capable of supporting ISO 14443 Type A contactless cards	Yes
ISO 14443 Type B Card Support	Reader and software capable of supporting ISO 14443 Type B contactless cards	Yes
ISO/IEC 21481	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes

Table 26. Contactless smartcard reader (continued)

Title	Description	Dell ControlVault 3 Contactless Smartcard reader with NFC
ISO/IEC 18092	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO 15693 Card Support	Reader and software capable of supporting ISO15693 contactless cards	Yes
NFC Tag Support	Supports reading and processing of NFC compliant tag information	Yes
NFC Reader Mode	Support for NFC Forum Defined Reader mode	Yes
NFC Writer Mode	Support for NFC Forum Defined Writer mode	Yes
NFC Peer-to-Peer Mode	Support for NFC Forum Defined Peer to Peer mode	Yes
EMVCo Compliant	Compliant with EMVCO smartcard standards as posted to www.emvco.com	Yes
EMVCo Certified	Formally certified based on EMVCO smartcard standards	Yes
NFC Proximity OS Interface	Enumerates NFP (Near Field Proximity) device for OS to utilize	Yes
PC/SC OS interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for OS level drivers	Yes
Windows Certified	Device certified by Microsoft WHCK	Yes
Dell ControlVault support	Device connects to Dell ControlVault for usage and processing	Yes

(i) NOTE: 125 Khz proximity cards are not supported.

Table 27. Supported cards

Manufacturer	Card	Supported
HID	jCOP readertest3 A card (14443a)	Yes
	1430 1L	
	DESFire D8H	
	iClass (Legacy)	
	iClass SEOS	
NXP/Mifare	Mifare DESFire 8K White PVC Cards	Yes
	Mifare Classic 1K White PVC Cards	
	NXP Mifare Classic S50 ISO Card	
G&D	idOnDemand - SCE3.2 144K	Yes
	SCE6.0 FIPS 80K Dual+ 1 K Mifare	

Table 27. Supported cards (continued)

Manufacturer	Card	Supported
	SCE6.0 nonFIPS 80K Dual+ 1 K Mifare	
	SCE6.0 FIPS 144K Dual + 1K Mifare	
	SCE6.0 nonFIPS 144K Dual + 1 K Mifare	
	SCE7.0 FIPS 144K	
Oberthur	idOnDemand - OCS5.2 80K	Yes
	ID-One Cosmo 64 RSA D V5.4 T=0 card	

Security Software

Table 28. Security Software specifications

Spe	cifications
Opc	011104110110

Dell Client Command Suite

Optional Dell Data Security and Management Software

Dell Client Command Suite

Dell BIOS Verification

Optional Dell Endpoint Security and Management Software

VMware Carbon Black Endpoint Standard

VMware Carbon Black Endpoint Standard + Secureworks Threat Detection and Response

Dell Encryption Enterprise

Dell Encryption Personal

Carbonite

VMware Workspace ONE

Absolute® Endpoint Visibility and Control

Netskope

Dell Supply Chain Defense

Computer environment

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

Table 29. Computer environment

Description	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 80% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	105 G†	40 G†
Altitude (maximum)	0 m to 3048 m (4.64 ft to 5518.4 ft)	0 m to 10668 m (4.64 ft to 19234.4 ft)

^{*} Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse when the hard drive is in use.

Keyboard shortcuts

NOTE: Keyboard characters may differ depending on the keyboard language configuration. Keys that are used for shortcuts remain the same across all language configurations.

Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol that is shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press shift and the key, the symbol shown on the upper part of the key is typed out. For example, if you press $\bf 2$, $\bf 2$ is typed out; if you press $\bf 3$, $\bf 4$ is typed out.

The keys F1-F12 at the top row of the keyboard are function keys for multi-media control, as indicated by the icon at the bottom of the key. Press the function key to invoke the task represented by the icon. For example, pressing F1 mutes the audio (refer to the table below).

However, if the function keys F1-F12 are needed for specific software applications, multi-media functionality can be disabled by pressing \mathbf{Fn} + \mathbf{Esc} . Subsequently, multi-media control can be invoked by pressing \mathbf{Fn} and the respective function key. For example, mute audio by pressing \mathbf{Fn} + $\mathbf{F1}$.

NOTE: You can also define the primary behavior of the function keys (F1–F12) by changing **Function Key Behavior** in BIOS setup program.

Table 30. List of keyboard shortcuts

Function key	Redefined key (for multimedia control)	Behavior
∠ × F1	fn + \(\sqrt{\times_{F1}}\)	Mute audio
□□ , F2	fn + \(\(\cd\) \(\cdot \) \	Decrease volume
□□ ") F3	fn + □□» F3	Increase volume
DII F4	+ >	Play/Pause
() F5	fn + ``` _{F5}	Toggle keyboard backlight (optional) NOTE: Non-backlight keyboards have F5 function key without i) the backlight icon and does not support toggle keyboard backlight function.
-;÷:- F6	fn + ∴; F6	Decrease brightness

Table 30. List of keyboard shortcuts (continued)

Function key	Redefined key (for multimedia control)	Behavior
F7	fn + ::	Increase brightness
F8	fn + 🗐 F8	Switch to external display
prt sc F10	fn + prt sc	Print screen
home F11	fn + home	Home
end F12	fn + end F12	End

The \mathbf{Fn} key is also used with selected keys on the keyboard to invoke other secondary functions.

Table 31. List of keyboard shortcuts

Function key	Behavior
fn + B	Pause/Break
fn + S	Toggle scroll lock
fn + R	System request
fn + ctrl	Open application menu
fn + esc	Toggle Fn-key lock

Getting help

Topics:

Contacting Dell

Contacting Dell

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.

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:

- 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.