

Latitude 3120

Technical Guide Book



Notes, cautions, and warnings

 **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.

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

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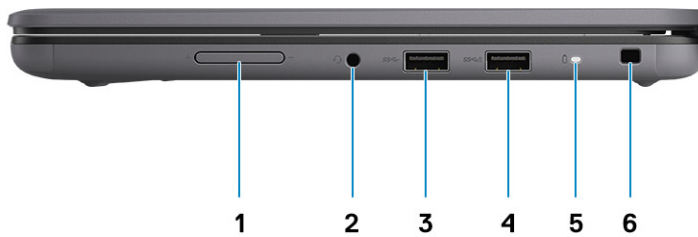
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Views of Latitude 3120

Topics:

- [Right](#)
- [Left](#)
- [Base](#)
- [Display](#)
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- [Modes](#)
- [LED Indicators and Characteristics](#)

Right



- | | |
|--------------------------------|--|
| 1. Volume button | 2. Headset (headphone and microphone combo) port |
| 3. USB 3.2 Gen 1 port | 4. USB 3.2 Gen 1 port with PowerShare |
| 5. Battery/Power LED indicator | 6. Wedge-shaped lock slot |

Left



1. Power adapter port
2. USB 3.2 Gen 2 Type-C port with DisplayPort (optional)
3. HDMI 1.4 port

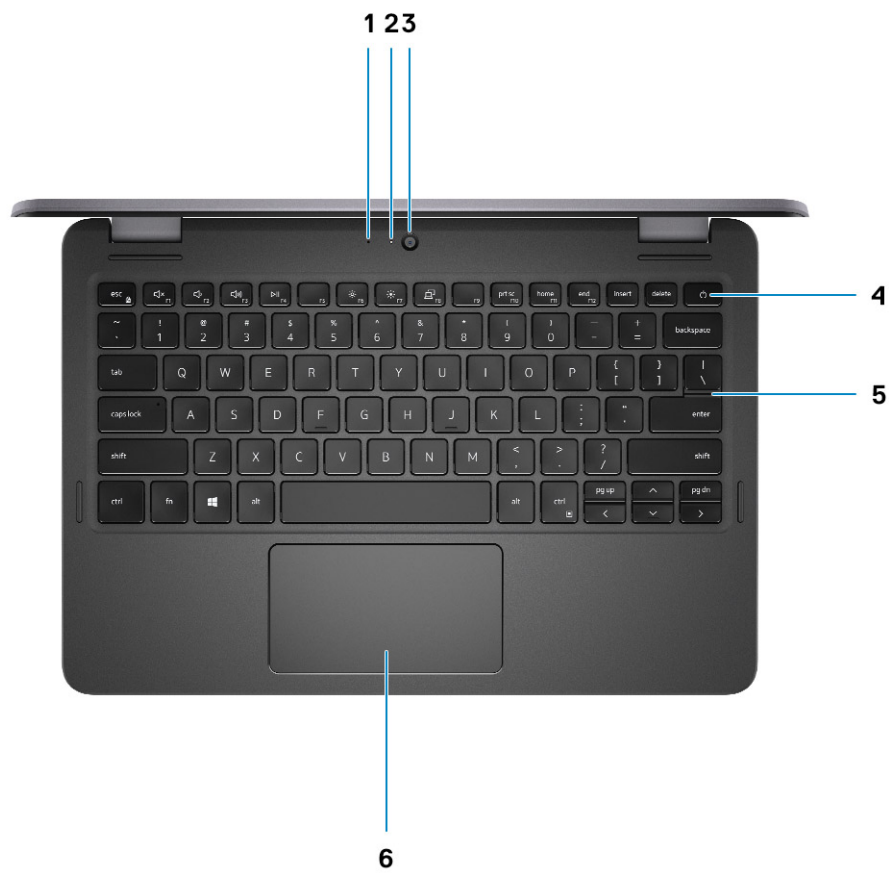
Base

Base - Laptop



1. Power button
2. Keyboard
3. Touchpad

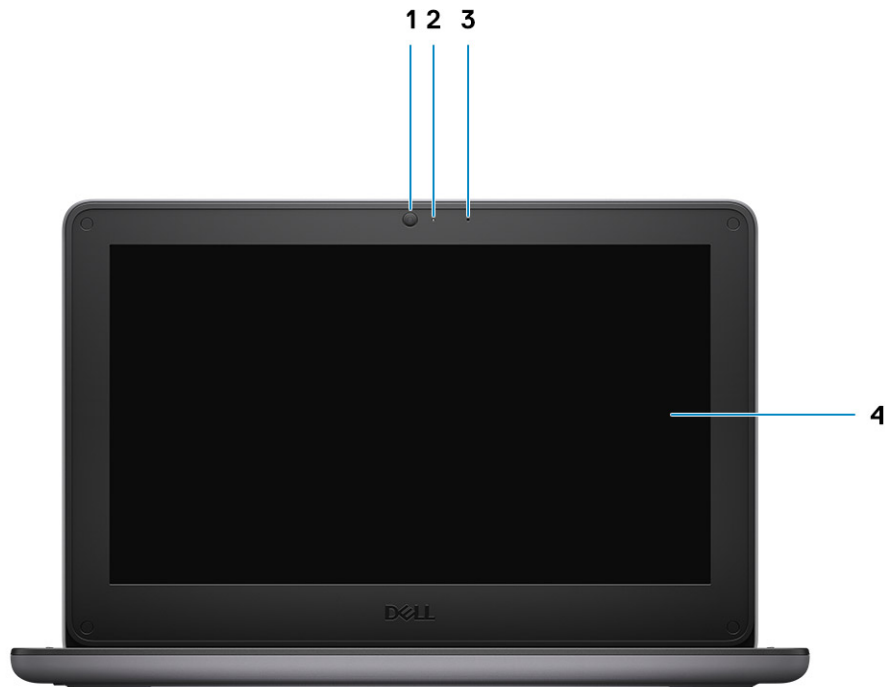
Base - 2-in-1



- | | |
|------------------------|----------------------|
| 1. Microphone | 2. Camera status LED |
| 3. World facing camera | 4. Power button |
| 5. Keyboard | 6. Touchpad |

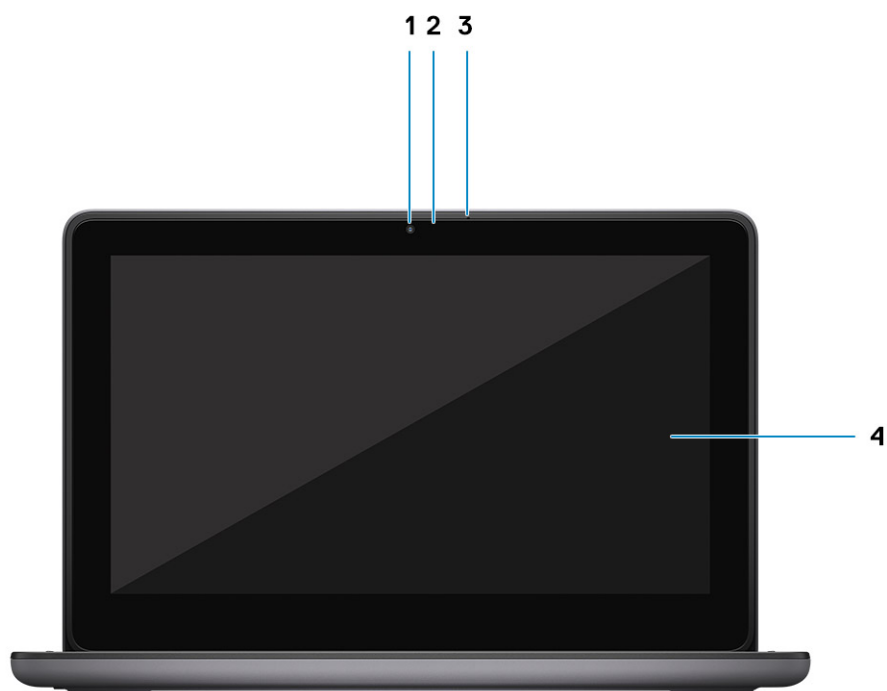
Display

Display - Laptop



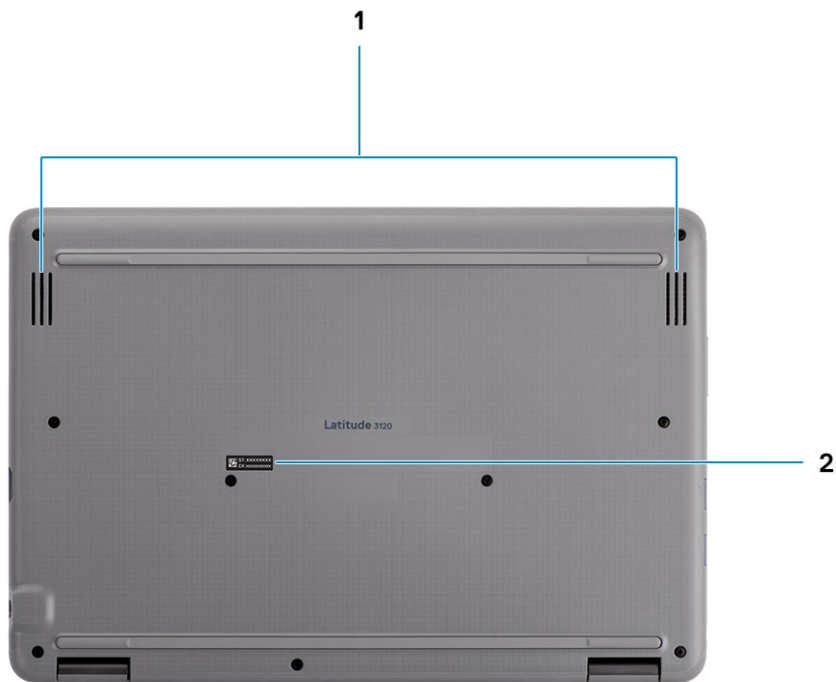
1. Front facing camera
2. Camera status LED
3. Microphone
4. Display panel

Display - 2-in-1



1. Front facing camera
2. Camera status LED
3. Microphone
4. Display panel

Bottom



- 1. Speakers
- 2. Service tag label

Modes

NOTE: The modes are applicable only to Latitude 3120 2-in-1.

Laptop



Tablet



Stand



Tent



LED Indicators and Characteristics

Battery Charge and Status LED

Table 1. Battery Charge and Status LED Indicator

Power Source	LED Behavior	System 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) - System is turned on.
- S4 (Hibernate) - The system consumes the least power compared to all other sleep states. The system is almost at an OFF state, expect for a trickle power. The context data is written to hard drive.
- S5 (OFF) - The system is in a shutdown state.

Specifications of Latitude 3120

Topics:

- Dimensions and weight
- Processor
- Chipset
- Operating system
- Memory
- External ports
- Internal slots
- Wireless module
- Audio
- Storage
- Keyboard
- Camera
- Touchpad
- Power adapter
- Battery
- Display
- GPU—Integrated
- Operating and storage environment

Dimensions and weight

The following table lists the height, width, depth, and weight of your Latitude 3120.

Table 2. Dimensions and weight

Description	Values
Height:	
Front height	• 20.90 mm (0.82 in.) - Laptop • 21.40 mm (0.84 in.) - 2-in-1
Rear height	• 20.90 mm (0.82 in.) - Laptop • 21.40 mm (0.84 in.) - 2-in-1
Width	300.88 mm (11.84 in.)
Depth	204.88 mm (8.06 in.)
Weight	• 1.35 kg (2.97 lb) - Laptop • 1.42 kg (3.12 lb) - 2-in-1  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 Latitude 3120.

Table 3. Processor

Description	Option one	Option two
Processor type	Intel Celeron N5100	Intel Pentium Silver N6000
Processor wattage	6 W	6 W
Processor core count	4 Core	4 Core
Processor thread count	4 Thread	4 Thread
Processor speed	1.10 GHz to 2.80 GHz	1.10 GHz to 3.30 GHz
Processor cache	4 MB	4 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics

Chipset

The following table lists the details of the chipset supported by your Latitude 3120

Table 4. Chipset

Description	Option one	Option two
Processors	Intel Celeron N5100	Intel Pentium Silver N6000
Chipset	Intel Celeron N5100	Intel Pentium Silver N6000
DRAM bus width	64-bit	64-bit
Flash EPROM	32 MB	32 MB
PCIe bus	Up to PCIe Gen3	Up to PCIe Gen3

Operating system

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

Memory

The following table lists the memory specifications of your Latitude 3120.

Table 5. Memory specifications

Description	Values
Memory slots	Integrated on the system board

Table 5. Memory specifications (continued)

Description	Values
Memory type	• DDR4 for Celeron processors • LPDDR4x for Pentium processors
Memory speed	2933 MHz
Maximum memory configuration	16 GB
Minimum memory configuration	4 GB
Memory size per channel	4 GB, 8 GB
Memory configurations supported	• 4 GB, DDR4 for Celeron processors, 2933 MHz, single-channel, integrated • 4 GB, LPDDR4x for Pentium processors, 2933 MHz, single-channel, integrated • 8 GB, LPDDR4x for Pentium processors, 2933 MHz, dual-channel, integrated • 16 GB, LPDDR4x for Pentium processors, 2933 MHz, dual-channel, integrated

External ports

The following table lists the external ports on your Latitude 3120.

Table 6. External ports

Description	Values
USB ports	• One USB 3.2 Gen 1 port • One USB 3.2 Gen 1 port with PowerShare • One USB 3.2 Gen 2 Type-C port with DisplayPort Alt Mode (Pentium only)
Audio port	One headset (headphone and microphone combo) port
Video port	• One HDMI 1.4 port • One DisplayPort Alt Mode (Pentium only)
Media-card reader	N/A
Power-adaptor port	• One 7.4 mm barrel-type • One USB Type-C port with Power Delivery (Pentium only)
Security-cable slot	One wedge-shaped lock slot

Internal slots

The following table lists the internal slots of your Latitude 3120.

Table 7. Internal slots

Description	Values
M.2	One M.2 2230 slot for solid-state drive

Table 7. Internal slots

Description	Values
	 NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626 at www.dell.com/support .

Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules supported on your Latitude 3120.

Table 8. Wireless module specifications

Description	Option one (Pentium only)	Option two (Celeron only)
Model number	Intel Wi-Fi 6 AX201	Intel Wi-Fi 5 9560 (160 MHz)
Transfer rate	Up to 2400 Mbps	Up to 1733 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz
Wireless standards	• Wi-Fi 802.11a/b/g • Wi-Fi 4 (Wi-Fi 802.11n) • Wi-Fi 5 (Wi-Fi 802.11ac) • Wi-Fi 6 (802.11ax)	• Wi-Fi 802.11a/b/g • Wi-Fi 4 (Wi-Fi 802.11n) • Wi-Fi 5 (Wi-Fi 802.11ac)
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	Bluetooth 5.1	Bluetooth 5.0

Audio

The following table lists the audio specifications of your Latitude 3120.

Table 9. Audio specifications

Description	Values
Audio controller	Realtek ALC3246-HDA Codec
Stereo conversion	Supported
Internal audio interface	High definition audio
External audio interface	Universal audio jack
Number of speakers	Two
Internal-speaker amplifier	Supported (audio codec integrated)
External volume controls	Keyboard shortcut controls, volume buttons
Speaker output:	
Average speaker output	2 W

Table 9. Audio specifications (continued)

Description		Values
	Peak speaker output	2.5 W
Subwoofer output		Not supported
Microphone		Single integrated microphone

Storage

This section lists the storage options on your Latitude 3120.

Your computer supports one of the following configurations:

- M.2 2230, PCIe x2 NVMe, Class 35 SSD
- One 64 GB eMMC, on-board, Celeron only

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

- For systems with an M.2 drive, the M.2 drive is the primary drive
- For systems with an eMMC drive, the eMMC drive is the primary drive

Table 10. Storage specifications

Storage type	Interface type	Capacity
M.2 2230, Class 35 Solid-State Drive	Gen 3 PCIe x2 NVMe	Up to 256 GB
eMMC for Celeron processors	On-board	64 GB

Keyboard

The following table lists the keyboard specifications of your Latitude 3120.

Table 11. Keyboard specifications

Description	Values
Keyboard type	Standard non-backlit keyboard with captive keycaps
Keyboard layout	QWERTY
Number of keys	• United States and Canada: 81 keys • United Kingdom: 82 keys • Japan: 85 keys
Keyboard size	X=18.70 mm key pitch Y=18.05 mm key pitch

Camera

Table 12. Camera specifications

Description	Option one	Option two (2-in-1 only)
Number of cameras	One	One
Type	RGB HD Camera	RGB 5M Camera

Table 12. Camera specifications (continued)

Description		Option one	Option two (2-in-1 only)
Location		Front Camera	Rear Camera
Sensor type		CMOS sensor technology	CMOS sensor technology
Resolution (RGB):			
	Still Image	1 megapixel (HD)	4.92 megapixels (5 M)
	Video	1280 x 720 (HD) at 30 fps	2560 x 1920 (5M) at 30 fps
Diagonal viewing angle, RGB		78.6°	76.6°

Touchpad

The following table lists the touchpad specifications of your Latitude 3120.

Table 13. Touchpad specifications

Description		Values
Touchpad resolution:		>=300dpi
Touchpad dimensions:		
	Horizontal	100 mm (3.94 in.)
	Vertical	55 mm (2.17 in.)
Touchpad gestures		For more information about touchpad gestures available on Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com .

Power adapter

Table 14. Power adapter specifications

Description	Option one	Option two
Type	65 W AC adapter, 7.4 mm	65 W AC adapter, USB-C, Pentium only
Diameter (connector)	7.40 mm x 5.10 mm	N/A
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)	1.60 A/1.70 A	1.70 A
Output current (continuous)	3.34 A (Continuous)	20 V / 3.25 A (Continuous) 15 V / 3 A (Continuous) 9 V / 3 A (Continuous) 5 V / 3 A (Continuous)

Table 14. Power adapter specifications (continued)

Description		Option one	Option two
Rated output voltage		19.50 VDC	• 20 VDC • 15 VDC • 9 VDC • 5 VDC
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)

Battery

The following table lists the battery specifications of your Latitude 3120.

Table 15. Battery specifications

Description		Option one	Option two
Battery type		3-cell, 40 WHr, "smart" Lithium-ion, ExpressCharge Capable Battery	4-cell, 53 WHr, "smart" Lithium-ion, ExpressCharge Capable Battery
Battery voltage		11.40 VDC	15.20 VDC
Battery weight (maximum)		0.18 kg (0.40 lb)	0.24 kg (0.53 lb)
Battery dimensions:			
	Height	184.10 mm (7.25 in.)	239.10 mm (9.41 in.)
	Width	90.73 mm (3.57 in.)	90.73 mm (3.57 in.)
	Depth	5.75 mm (0.23 in.)	5.75 mm (0.23 in.))
Temperature range:			
	Operating	0°C to 35°C (32°F to 95°F)	0°C to 35°C (32°F to 95°F)
	Storage	-40°C to 65°C (-40°F to 149°F)	-40°C to to 65°C (-40°F to 149°F)
Battery 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.
Battery charging time (approximate) 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, <i>Me and My Dell</i> on www.dell.com .		4 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, <i>Me and My Dell</i> on www.dell.com/	4 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, <i>Me and My Dell</i> on www.dell.com/
Life span (approximate)		300 cycles at room temperature	300 cycles at room temperature
ExpressCharge		Supported	Supported
User replaceable		No (FRU)	No (FRU)

Table 15. Battery specifications (continued)

Description	Option one	Option two
Coin-cell battery	CR2032	CR2032

NOTE:

For batteries with the ExpressCharge feature, the battery will typically have at least an 80% charge after about an hour of charging with the system off, and fully charged in about 2 hours with the system off.

Enabling ExpressCharge requires that both the computer and the battery used be ExpressCharge capable. If these requirements are not met, ExpressCharge will not be enabled.

[¶]Field Replaceable Part

Display

Table 16. Display specifications

Description	Option one	Option two
Type	11.6-inches, HD, non-touch	11.6-inches, HD, touch, 2-in-1
Panel technology	TN	IPS
Luminance (typical)	220 nits	220 nits
Dimensions (Active area):		
Height	144 mm (5.67 in.)	144 mm (5.67 in.)
Width	256.12 mm (10.08 in.)	256.12 mm (10.08 in.)
Diagonal	294.64 mm (11.60 in.)	294.64 mm (11.60 in.)
Native resolution	1366 x 768	1366 x 768
Megapixels	1	1.05
Pixels per inch (PPI)	135	135
Contrast ratio (min)	600:1 typical	700:1 typical
Response time (max)	20 ms	45 ms
Refresh rate	60 Hz	60 Hz
Horizontal view angle	+40/-40 degrees	-80/+80 degrees
Vertical view angle	+10/-30 degrees	-80/+80 degrees
Pixel pitch	0.1875 mm x 0.1875 mm	0.1875 mm x 0.1875 mm
Power consumption (maximum)	2.8 W	4 W
Anti-glare vs glossy finish	Anti-glare	Glossy finish
Touch options	No	Yes, anti-fingerprint, 360 convertible
Stylus	No	Yes

Table 16. Display specifications (continued)

Description	Option one	Option two
		• MPP 1.51 active pen support • Pencil touch support • Waltop Pen w/ AAA battery (P/N: ACS-20M)

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Latitude 3120.

Table 17. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics	• One HDMI 1.4 port • One DisplayPort Alt Mode over USB Type-C port (optional)	Shared system memory	Intel Celeron N5100/Pentium Silver N6000

Operating and storage environment

This table lists the operating and storage specifications of your Latitude 3120.

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

Table 18. 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 90% (non-condensing)	5% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	N/A
Shock (maximum)	160 G†	N/A
Altitude (maximum)	3048 m (10000 ft)	10668 m (35000 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.

Engineering specifications

Topics:

- [Communications](#)
- [Graphics options](#)
- [Storage](#)
- [Accessories](#)
- [Security](#)
- [System management features](#)

Communications

Wireless communication

Intel Dual Band Wireless-AC 9560 802.11ac 160 MHz 2x2 Wi-Fi + Bluetooth 5

Table 19. Intel Dual Band Wireless-AC 9560 802.11ac 160 MHz (2x2) Wi-Fi + Bluetooth 5

Features	Specifications
Host interface	Intel dual band wireless-9560
Transfer rate (max)	1.73 Gbps
Wi-Fi Alliance Certifications	WPA* and WPA2*, WPS2*, Protected Management Frames, Wi-Fi Miracast* as Source, and Wi-Fi Direct (For Microsoft Windows* only)l
Frequency Bands supported	2.4/ 5 GHz (160 MHz)
Wireless Standards	WiFi 802.11b/g/a/n/ac,
Bluetooth	Bluetooth 5 (HW Ready, SW depends on operating system)
Encryption	64-bit and 128-bit WEP, TKIP, 128-bit AES-CCMP
Government Compliance	FIPS, FISMA
Antenna Diversity	Supported
Radio On/Off	Supported
Wireless PAN Standard	WiFi 802.11ac WiFi 802.11b/g/n
Bluetooth Data rates	Up to 3 Mbps
Bluetooth Operating Frequency Bands	2.4 GHz
Bluetooth Profiles Supported	Support for Microsoft Inbox Bluetooth profiles in Windows 10
Bluetooth Data Encryption	64/128-bit encryption
Bluetooth Output Power	Power class 1
Temperature	Operating temperature 0°C to + 80°C

Table 19. Intel Dual Band Wireless-AC 9560 802.11ac 160 MHz (2x2) Wi-Fi + Bluetooth 5 (continued)

Features	Specifications
	Storage temperature of -40°C to +70°C
Humidity	50% to 90% RH non-condensing (at temperatures of 25°C to 35°C)

Intel Wi-Fi 6 AX201 2x2 (Gig+) + Bluetooth 5.1

Table 20. Intel Wi-Fi 6 AX201 2x2 (Gig+) + Bluetooth 5.1 specifications

Feature	Values
Host interface	M.2 2230 form factor: • Wi-Fi - PCIe • Bluetooth - USB
Network standard	IEEE 802.11a/b/g/n/ac/ax, 160MHz channel use, MU-MIMO
Wi-Fi alliance certifications	• Wi-Fi Certified a/b/g/n/ac with wave 2 features • Designed to be Wi-Fi Certified ax (Wi-Fi 6) • WMM • WMM-PS • WPA • WPA2 • WPS2 • Protected Management Frames • Wi-Fi Direct (For Windows only)
Operating frequency bands	• 2.4 Ghz • 5 Ghz
Data rate	• 2.4 GHz 40M - Up to 574 Mbps • 5 GHz 80M - Up to 1.2 Gbps • 5 GHz 160M - Up to 2.4 Gbps
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Authentication	• WPA and WPA2 Personal and Enterprise • WPA3 (pending OS support)
Authentication protocols	• 802.1X EAP-TLS • EAP-TTLS/MSCHAPv2 • PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA)
Encryption	• 64-bit and 128-bit WEP • TKIP • 128-bit AES-CCMP • 256-bit AES-GCMP
Product safety	• UL • C-UL • CB(IEC60950-1)
Management capabilities alerting	Support for Intel AMT
Government compliance	• FIPS 140-2 • FISMA
Client utility	Intel PRO/Set Wireless Software v21 and later

Table 20. Intel Wi-Fi 6 AX201 2x2 (Gig+) + Bluetooth 5.1 specifications (continued)

Feature	Values
Antenna diversity	Supported
Radio On/Off	Supported
Roaming	Support seamless roaming between access points
Wake On wireless	Supported
Wireless display	Native Miracast support by Windows 10
Wireless PAN standard	Dual Mode Bluetooth 5.1, BLE
Bluetooth version	Bluetooth 5.1
Bluetooth data rates	Up to 3 Mbps
Bluetooth operating frequency bands	2.4 GHz
Bluetooth profiles supported	Support for Microsoft Inbox Bluetooth profiles in Windows 10
Bluetooth data encryption	128-bit encryption
Bluetooth output power	Power class 1
Temperature	- Operating temperature 0°C to + 50°C (Full performance at shield temperatures up to 80°C) - Storage temperature of -40°C to +70°C
Humidity	Up to 90% RH non-condensing (at temperatures of 25°C to 35°C)

Graphics options

Intel UHD Graphics

Table 21. Intel UHD Graphics specifications

Intel UHD Graphics	
Bus Type	Integrated
Memory Type	Shared system memory
Graphics Level	- Celeron (UHD) - Pentium (UHD)
Estimated Maximum Power Consumption (TDP)	6 W (included in the CPU power)
Overlay Planes	Yes
Operating Systems Graphics/ Video API Support	DirectX 12 (Windows 10), OpenGL 4.5
Maximum Vertical Refresh Rate	Up to 60 Hz (depending on resolution)
Multiple Display Supports	- On System: HDMI - Via Optional USB Type-C Port: DisplayPort
External Connectors	HDMI 1.4

Table 21. Intel UHD Graphics specifications (continued)

Intel UHD Graphics	
	• USB 3.2 Gen 2 Type-C port with DisplayPort Alt Mode

Storage

64 GB eMMC, on-board

Table 22. 64 GB eMMC

Capacity (GB)	64 GB
MMC Interface	eMMC 5.1
Voltage	3.3 V

M.2 2230 128 GB Gen 3 PCIe x2 NVMe Class 35 Solid-State Drive

Table 23. M.2 2230 128 GB Gen 3 PCIe x2 NVMe Class 35 Solid-State Drive

Features	Specifications
Capacity	128 GB
Dimensions	22.00 mm x 30.00 mm x 2.38 mm
Interface type and maximum speed	Gen 3 PCIe 16 Gb/s (Up to 2 lanes)
MTTF	1.4 M hours
Logical blocks	250,069,680
Power Source	
Power consumption (reference only)	• Idle : 5 mW (PS4) • Active : 3.5 W
Environmental Operating Conditions (Non-Condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Non-op shock (@0.5 ms)	1500G
Environmental Non-Operating Conditions (Non-Condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230 256 GB Gen 3 PCIe x2 NVMe Class 35 Solid-State Drive

Table 24. M.2 2230 256 GB Gen 3 PCIe x2 NVMe Class 35 Solid-State Drive

Features	Specifications
Capacity	256 GB
Dimensions	22.00 mm x 30.00 mm x 2.38 mm
Interface type and maximum speed	Gen 3 PCIe 16 Gb/s (Up to 2 lanes)
MTTF	1.4 M hours
Logical blocks	500,118,192
Power Source	
Power consumption (reference only)	- Idle : 5 mW (PS4) - Active : 3.5 W
Environmental Operating Conditions (Non-Condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Non-op shock (@0.5 ms)	1500G
Environmental Non-Operating Conditions (Non-Condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

Accessories

Table 25. Accessories

Accessories	
Sensors	- Accelerometer - e-Compass - Gyro
Monitor	- Dell 24 Monitor - E2420H - Dell 75 4K Interactive Touch Monitor - C7520QT
Cables, Dongles, Adapters	Dell Adapter - USB-C to HDMI/VGA/Ethernet/USB 3.0 - DA200
Charging Cart	Dell Compact USB-C Charging Cart - 36 Devices (prewired for USB-C Laptops) - CT36UC20
Carrying Case	Gumdrop Droptech Case
Audio	Dell Pro Stereo Headset - UC150
Input device	- Dell Mobile Wireless Mouse - MS3320W - MPP 1.51 Active Pen - ACS-20M

Security

Table 26. Security specifications

Features	Specifications
Trusted Platform Module (TPM) 2.0	Intel PTT (fTPM)
Fingerprint reader	N/A
Wedge shaped lock slot	Standard

Software Security

Table 27. Security Software specifications

Specifications
Dell Client Command Suite
Optional Dell Data Security and Management Software
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
McAfee Small Business Security 30 Day Free Trial
McAfee Small Business Security 12 month subscription
McAfee Small Business Security 36 month Subscription

System management features

Dell commercial systems come with a number of systems management options that are include by default for In-Band management with our Dell Client Command Suite. In-Band management meaning that the Operating System is functional and the device is connected to a network so that it can be managed. The Dell Client Command Suite of tools can be leveraged individually or with a systems management console like SCCM, LANDESK, KACE, etc.

We also offer Out-of-Band management as an option. Out-of-band management is when the system does not have a functional operating system or is turned off and you still want to be able to manage the system in that state.

Dell Client Command Suite for In-Band systems management

Dell Client Command Suite is a free toolkit available for download, for all Latitude Rugged tablets at dell.com/support, automates and streamlines systems management tasks, saving time, money, and resources. It consists of the following modules that can be used independently, or with a variety of systems management consoles such as SCCM.

Dell Client Command Suite's integration with VMware Workspace ONE Powered by AirWatch, now allows customers to manage their Dell client hardware from the cloud, using a single Workspace ONE console.

Dell Command | Deploy enables easy operating system (OS) deployment across all major OS deployment methodologies and provides numerous system-specific drivers that have been extracted and reduced to an OS-consumable state.

Dell Command | Configure is a graphical user interface (GUI) admin tool for configuring and deploying hardware settings in a pre-OS or post-OS environment, and it operates seamlessly with SCCM and Airwatch and can be self-integrated into LANDesk and KACE. Simply, this is all about the BIOS. Command | Configure allows you to remotely automate and configure over 150+ BIOS settings for a personalized user experience.

Dell Command | PowerShell Provider can do the same things as Command | Configure, but with a different method. PowerShell is a scripting language that allows customers to create a customized and dynamic configuration process.

Dell Command | Monitor is a Windows Management Instrumentation (WMI) agent that provides IT admins with an extensive inventory of the hardware and health-state data. Admins can also configure hardware remotely by using command line and scripting.

Dell Command | Power Manager (end-user tool) is a GUI-based factory-installed battery management tool that allows end users to choose the battery management methods that meet their personal preferences or work schedule without sacrificing IT's capability to control those settings with Group Policy.

Dell Command | Update (end-user tool) is factory-installed and allows admins to individually manage and automatically present and install Dell updates to the BIOS, drivers, and software. Command | Update eliminates the time-consuming hunting and pecking process of update installation.

Dell Command | Update Catalog provides searchable metadata that allows the management console to retrieve the latest system-specific updates (driver, firmware or BIOS). The updates are then delivered seamlessly to end-users using the customer's systems management infrastructure that is consuming the catalog (like SCCM).

Dell Command | vPro Out of Band console extends hardware management to systems that are offline or have an unreachable OS (Dell exclusive features).

Dell Command | Integration Suite for System Center - This suite integrates all the key components of the Client Command Suite into Microsoft System Center Configuration Manager 2012 and Current Branch versions.

Out of Band Systems Management

Both the Intel vPro and Intel Standard Manageability options **must be configured in our factory at the time of purchase, as they are NOT field upgradable**. They offer out-of-band management and DASH compliance (https://registry.dmtf.org/registry/results/field_initiative_name%3A%22DASH%201.0%22).

Intel Standard Manageability (ISM)—ISM offers a limited set of out-of-band features like remote power on/off, Serial-over-LAN redirect, and Wake-on-LAN.

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>.

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 **2**, **2** is typed out; if you press **Shift + 2**, **@** 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 **Fn + Esc**. Subsequently, multi-media control can be invoked by pressing **Fn** and the respective function key. For example, mute audio by pressing **Fn + 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 28. List of keyboard shortcuts

Function key	Redefined key (for multimedia control)	Behavior
 F1	 +  F1	Mute audio
 F2	 +  F2	Decrease volume
 F3	 +  F3	Increase volume
 F4	 +  F4	Play/Pause
 F5	 +  F5	Toggle keyboard backlight (optional) NOTE: Non-backlight keyboards have F5 function key without the backlight icon and does not support toggle keyboard backlight function.
 F6	 +  F6	Decrease brightness

Table 28. List of keyboard shortcuts (continued)

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

The **Fn** key is also used with selected keys on the keyboard to invoke other secondary functions.

Table 29. 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 and contacting Dell

Self-help resources

You can get information and help on Dell products and services using these self-help resources:

Table 30. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell app	
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	www.dell.com/support/windows
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals and documents.	Your Dell computer is uniquely identified by a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at www.dell.com/support. For more information on how to find the Service Tag for your computer, see Locate the Service Tag on your computer.
Dell knowledge base articles for a variety of computer concerns	1. Go to www.dell.com/support. 2. On the menu bar at the top of the Support page, select Support > Knowledge Base. 3. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

 **NOTE:** Availability varies by country/region and product, and some services may not be available in your country/region.

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