

Dell Latitude 3190 2-in-1

Technical Guidebook



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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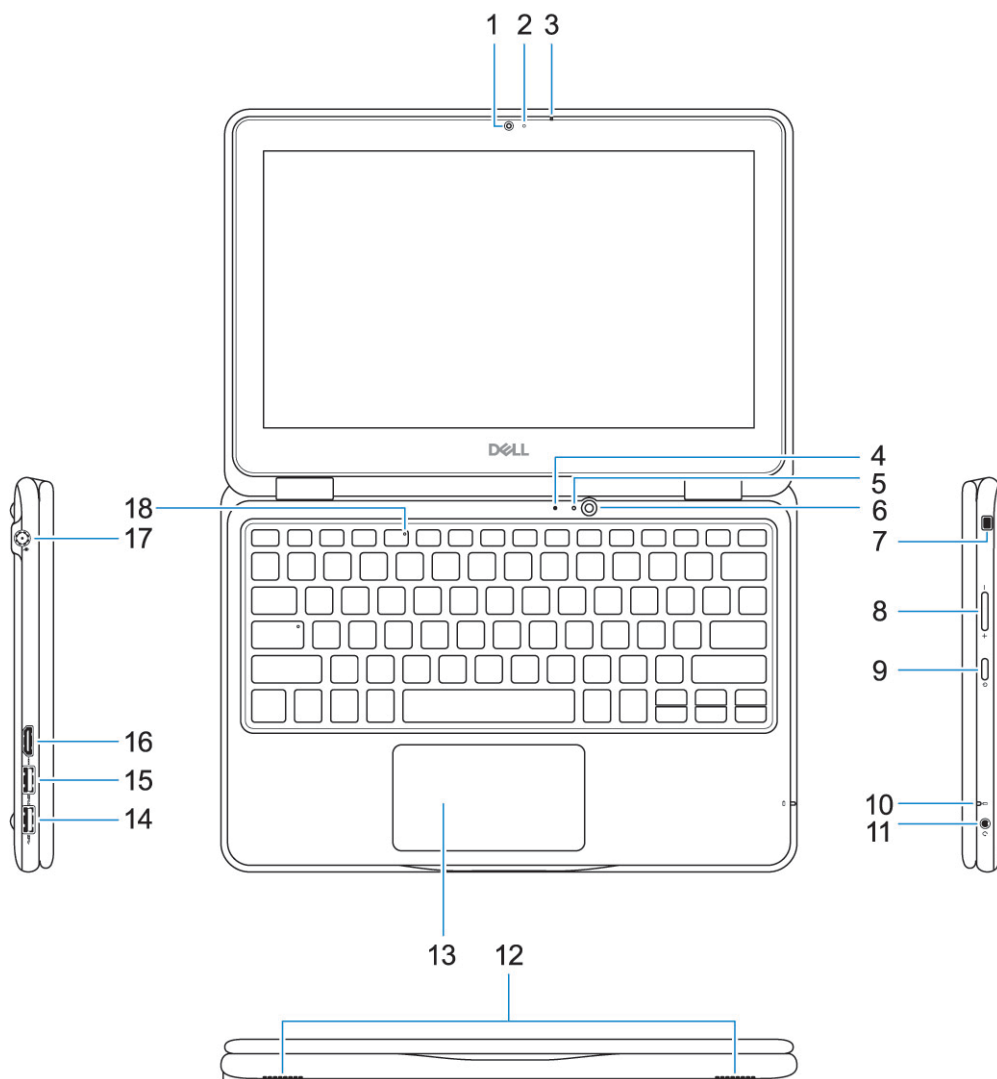
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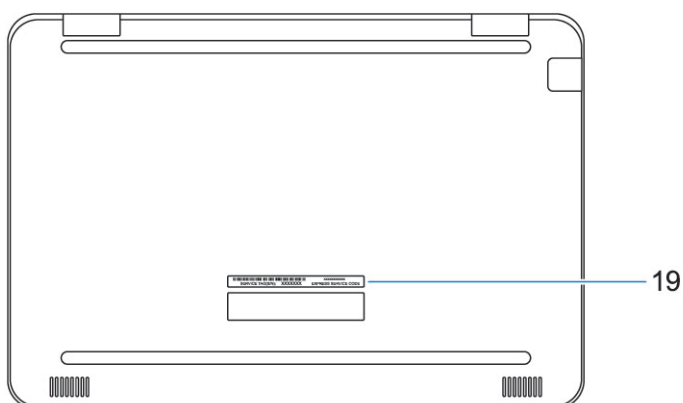
Product View and Technical Specifications

Features of Latitude 3190 2-in-1

The features topics call out the different views of the computer along with the ports and components available in each view for the Latitude 3190 2-in-1.

Front and back view





1. Camera
2. Camera status light
3. Microphone
4. World-facing microphone (optional)
5. World-facing camera status light (optional)
6. World-facing camera (optional)
7. Noble Wedge lock slot
8. Volume control button
9. Power button
10. Battery status light
11. Universal audio jack
12. Speakers
13. Touchpad
14. USB 3.1 Gen 1 port with PowerShare
15. USB 3.1 Gen 1 port with PowerShare
16. HDMI port
17. Power connector port
18. Microphone status light
19. Service tag label

Technical Specifications

This topics lists out the technical specifications for the Latitude 3190 2-in-1.

Table 1. Specifications

Type	Feature
Model Number	Latitude 3190 2-in-1
Processor family	- Intel® Pentium® Processor N5000 (6W, 4M cache, up to 2.7 GHz) - Intel® Celeron® Processor N4100 (6W, 4M cache, up to 2.4 GHz) - Intel Celeron Processor N4120 (6W, 4M cache, up to 2.6 GHz) - Intel Pentium Processor N5030 (6W, 4M cache, up to 3.1 GHz)
Operating System	Microsoft® Windows 10 64 bit RS2 or above
Memory	4 GB DDR4 2400Mhz 8 GB DDR4 2400Mhz
Chipset	Intel Gemini Lake (integrated with processor)
Graphics	Intel® UHD Graphics 605/600
Display	11.6" HD 16:9 (1366 x 768) Touch with Corning® Gorilla® Glass NBT
Storage options	64 GB eMMC - M.2 128 GB SATA Class 20 Solid State Drive - M.2 256 GB SATA Class 20 Solid State Drive - M.2 128GB PCIe NVMe Class 35 Solid State Drive - M.2 256GB PCIe NVMe Class 35 Solid State Drive

Multimedia	• High Quality Speakers • Headphone/Headset/Microphone combo jack • Integrated, noise reducing array microphones • Optional Integrated HD video webcam
Battery options	• 42 Whr (3 Cell) Prismatic with ExpressCharge
Power adapter	• E4 65W - 65 Watt AC Adapter • E5 65W Rugged (India only) • E5 65W - 65 Watt AC Adapter • E4 65W HF (BFR/PVC Free) • Dell Portable Power Companion (12000 mAh) PW7015M (Power Companion 45W (Dura Ace)) • Dell Portable Power Companion (18000 mAh) PW7015L (Power Companion 65W (Tesla))
Connectivity	Intel Dual Band Wireless-Intel® Dual Band Wireless-AC 8265 802.11AC 2x2 Wi-Fi + BT 4.2 LE Solder Down Card
Ports, Slots and Chassis	One full size HDMI port, 2 USB 3.1 Gen 1 (1 w/ Power share); universal mic/headset
Security	Dell Data Protection Encryption Software Upsell Options Dell Data Protection Protected Workspace UPSell Intel FW TPM Noble Wedge Lock
Input device	Single Point Sealed non-backlit Keyboard Multi-touch Sealed Touchpad
Docking	Dell D3100 USB 3.0 Dock

Marketing System Configurations

Operating system configurations

This topic lists the operating system supported by

Table 2. Operating systems

Windows	Microsoft® Windows10 64 bit RS2 and above
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Processor

The Dell Latitude 3190 system is built with Intel Pentium and Celeron Processors.

Table 3. Processor specifications

Processors Support List	UMA Graphics
Intel Pentium Processor N5000 (6W, 4M cache, up to 2.7 GHz)	Intel UHD Graphics 605
Intel Celeron Processor N4100 (6W, 4M cache, up to 2.4 GHz)	Intel UHD Graphics 600
Intel Pentium Processor N5030 (6W, 4M cache, up to 3.1 GHz)	Intel UHD Graphics 605
Intel UHD Graphics 605	
Intel Celeron Processor N4120 (6W, 4M cache, up to 2.6 GHz) Intel	Intel UHD Graphics 600
UHD Graphics 600	

Memory

Your computer supports a maximum of 8 GB of memory.

Table 4. Memory specifications

Minimum Memory Configuration	4 GB
Maximum Memory Configuration	8 GB
Type	DDR4 (on-board memory)
Speed	2400 MHz

Security options

This topic lists the security information.

Table 5. Security options

Intel Platform Trust Technology	Intel FW TPM
Noble Wedge Lock	Yes
Dell Data Protection Protected Workspace Upsell	Yes
Dell Data Protection Encryption Software Upsell Options	Yes

Table 6. Service and Support

1-Year Mail-In Service	Standard
i NOTE: Service many be provided by third party. Technician will be dispatched if necessary following phone-based troubleshooting, subject to parts availability, and other terms of service contract.	
ProSupport	Optional

Engineering specifications

System dimensions

This topic lists out the dimensions of the computer in detail.

Table 7. System dimension

		Touch
Weight (pounds/kilogram)		Starts from 3.19 lb/1.45 kg
Dimensions inches		
	Height	- Front – 21.25 mm (0.83 inch) - Back – 21.25 mm (0.83 inch)
	Width	303.8 mm (11.96 inches)
	Depth	207.9 mm (8.18 inches)

 **NOTE:** System weight and shipping weight is based on a typical configuration and may vary based on the actual configuration.

Operating Conditions

This topics lists the operating conditions of your system.

Table 8. Operating conditions

Temperature Range	- Operating: 0 °C to 35 °C (32 °F to 95 °F) - Storage: -40 °C to 65 °C (-40 °F to 149 °F)
Relative humidity	- Operating : 10 % to 90 % (non-condensing) - Storage: 5% to 95% (non-condensing)
Altitude (maximum)	- Operating : 3048 m (10,000 ft) - Storage: 10668 m (35,000 ft)
Shock	- Operating: 160 G with pulse duration of 2 ms (equivalent to 80 in/sec) - Storage: 160 G with pulse duration of 2 ms (equivalent to 80 in/sec)
Vibration	- Operating: 0.66 Grms - Storage: 1.33 Grms

Adapter options

This topic lists the adapter specifications for Latitude 3190 2-in-1:

Table 9. AC Adapter

Wattage	E4 65W - 65 Watt AC Adapter	E5 65W Rugged (India only)	E4 65W HF (BFR/PVC Free)
Adapter Specifications			

Input voltage	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Input current (max)	1.7 A	1.7 A	1.7 A
Input Frequency	50 Hz to 60 Hz	50 Hz to 60 Hz	50 Hz to 60 Hz
Output current	3.34 A (continuous)	3.34 A (continuous)	3.34 A (continuous)
Rated output voltage	19.5 VDC	19.5 VDC	19.5 VDC
Weight (kg)	0.29	0.23	0.29
Dimensions (HxWxD inches)	1.1 x 1.9 x 4.3	0.87 x 2.6 x 4.17	1.1 x 1.9 x 4.3
Temperature range:	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C
Operating	32 °F to 104 °F	32 °F to 104 °F	32 °C to 104 °F
Storage	-40 °C to 70 °C -40 °F to 158 °F	-40 °C to 70 °C -40 °F to 158 °F	-40 °C to 70 °C -40 °F to 158 °F

Graphics options

This topic lists the graphic specifications.

Table 10. Graphics specification

Integrated Graphics Controller	Intel HD Graphics
Model	Latitude 3190 2-in-1
Bus Type	Internal PCIe
Memory Interface	N/A (unified memory architecture)
Clock Speeds	Pentium N5000: 2.7 GHz Celeron N4100: 2.4 GHz
Max Graphics dynamic frequency	Pentium N5000: 750MHz Celeron N4100: 650MHz
Graphics Level	Pentium N5000: Intel UHD Graphics 605 Celeron N4100: Intel UHD Graphics 600
Estimated Maximum Power Consumption (TDP)	6 W (Total SOC power consumption)
Display Support	eDP (internal), HDMI
Maximum Color Depth	32-bit
Maximum Vertical Refresh Rate	Up to 60 Hz depending on resolution
Operating Systems Graphics/ Video API Support	DirectX 12, OpenGL 4.3
Supported Resolutions and Max Refresh Rates (Hz) (Note: Analog and/or digital)	eDP: Panel 1366x768@60hz. HDMI: V1.4 @1.65Gb/s
Numbers of Displays Supported	2 max

Wireless communications

Table 11. Intel Dual Band Wireless-AC 8265 802.11AC 2x2 Wi-Fi + BT 4.2 LE Solder Down Card

Attribute	Specification
Host interface	M.2 1216 solder down form factor (WiFi – PCIe, Bluetooth – USB)
Network standard	IEEE 802.11a/b/g/n/ac
Wi-Fi Alliance Certifications	802.11a/b/g/n/ac, WPA, WPA2, WMM, WPS, Wi-Fi Direct, 802.11ac
Operating Frequency Bands	2.4 GHz and 5 GHz
Dual Stream N	Support for two transmit and receive antennas enable better wireless at the same distance when compared to older 802.11a/b/g solutions.
Data Rate	Up to 867 Mbps
Power Consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Authentication Authentication Protocols Encryption Product Safety	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA PAP, CHAP, TLS, GTC, MS-CHAP, MS-CHAPv2 64-bit and 128-bit WEP, 128-bit AES-CCMP UL, C-UL, CB (IEC60950-1)
Management Capabilities Alerting	Not Supported
Government Compliance	FIPS (Windows® 7 only), FISMA
Client Utility	Intel® PRO/Set Wireless Software v19.0 and later.
Software Support	Microsoft WHQL certified for Windows 10
Radio On/Off	Supported
LED output	Supported
Roaming	Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11a/b/g, and 802.11a/b/g/n/ac)
Wake On Wireless	Windows® 8.1/10 without Intel AMT
Wireless Display	Native Windows 10 Miracast support
Country Restrictions	N/A
Wireless PAN Standard	Dual Mode Bluetooth 4.2, BLE
Bluetooth Data rates	Up to 3 Mbps
Bluetooth Operating Frequency Bands	2.4 GHz
Bluetooth Profiles Supported	For Windows 7, includes DID, HID, PAN, HCRP, SPP, HFP, HSP DUN, OPP, FTP, BIP, BPP, SYNCH, A2DP(source/sink), AVRCP (target/controller), HOGP (LE HID)

Attribute	Specification
	Support for Microsoft Inbox Bluetooth profiles in Windows 8.1 and future OS versions.
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)

Camera option

This topics lists out the detailed camera specifications.

Table 12. Camera specification

Camera type	HD fixed focus
Sensor type	CMOS sensor technology
Resolution: Motion video	Up to 1280 X 720 (1 MP)
Resolution: Still image	Up to 1280 X 720 (1 MP)
Imaging rate	Up to 30 frames per second

World Facing Camera (optional)

This topics lists out the detailed camera specifications.

Table 13. Camera specification

Camera type	5M Auto Focus
Sensor type	CMOS Image Sensor
Image Resolution(Maximum)	2592 x 1944 pixels
Video Resolution(Maximum)	1920 x 1080 pixels
Imaging rate(Maximum)	Up to 30 frames per second

Storage options

This topic lists out the detailed specifications of the supported SSDs and eMMC storage.

Table 14. 64 GB eMMC

Capacity (GB)	64 GB
MMC Interface	5.0
Voltage	3.3 V

Table 15. 128 GB SATA Mobile SSD (M.2)

Capacity (GB)	128 GB
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Dimensions inches (W x D x H)	80.0 mm x 22.0 mm x 3.65 mm (W x D x H)
Interface type and Maximum speed	SATA interface and Maximum speed 6.0Gb/s rates.
MTBF	1,500,000 hours
Logical Blocks	125,045,424
Power Source	
Power Consumption (reference only)	2.5 W
Environmental Operating Conditions (Non-Condensing):	
Temperature Range	0 °C to 70 °C
Relative Humidity Range	5% to 95%
Op Shock (@0.5ms)	1500 G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40 °C to 85 °C
Relative Humidity Range	5% to 95%

Table 16. 256 GB SATA Mobile SSD (M.2)

Capacity (GB)	256 GB
Dimensions inches (W x D x H)	80.0 mm x 22.0 mm x 3.65 mm (W x D x H)
Interface type and Maximum speed	SATA interface and Maximum speed 6.0Gb/s rates.
MTBF	1,500,000 hours
Logical Blocks	125,045,424
Power Source	
Power Consumption (reference only)	2.5 W
Environmental Operating Conditions (Non-Condensing):	
Temperature Range	0 °C to 70 °C
Relative Humidity Range	5% to 95%
Op Shock (@0.5ms)	1500 G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40 °C to 85 °C
Relative Humidity Range	5% to 95%

Table 17. 128 GB PCIe drive

Capacity (GB)	128 GB
Dimensions inches (W x D x H)	80.0 mm x 22.0 mm x 2.38 mm (W x D x H)
Interface type and Maximum speed	PCIe GEN3. Speed up to 32GT/s (4Lane x8 GT/s)

MTBF	1,500,000 hours
Logical Blocks	125,045,424
Power Source	
Power Consumption (reference only)	3.5 W
Environmental Operating Conditions (Non-Condensing):	
Temperature Range	0 °C to 70 °C
Relative Humidity Range	5% to 95%
Op Shock (@0.5ms)	1500 G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40 °C to 85 °C
Relative Humidity Range	5% to 95%

Table 18. 265 GB PCIe drive

Capacity (GB)	256 GB
Dimensions inches (W x D x H)	80.0 mm x 22.0 mm x 2.38 mm (W x D x H)
Interface type and Maximum speed	PCIe GEN3. Speed up to 32GT/s (4Lane x8 GT/s)
MTBF	1,500,000 hours
Logical Blocks	125,045,424
Power Source	
Power Consumption (reference only)	3.5 W
Environmental Operating Conditions (Non-Condensing):	
Temperature Range	0 °C to 70 °C
Relative Humidity Range	5% to 95%
Op Shock (@0.5ms)	1500 G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40 °C to 85 °C
Relative Humidity Range	5% to 95%

Ports and Connectors

Table 19. Ports and Connectors

USB	Two USB 3.1 Gen 1 (one with PowerShare)
Video	Full Size HDMI
Modem	NA

Audio	Universal Audio JAck Two channel high definition audio Stereo conversion: 16/20/24-bit (analog-to-digital and digital-to-analog) Internal Interface - high-definition audio codec. Speakers: Power / Peak Power: 2W Average/2.5W Peak Internal speaker amplifier: 2 watt per channel Internal microphone: digital microphone (dual microphone with camera) Volume control buttons, supports hot-key keyboard button
Expansion	NA
Express Card	NA

Battery specifications

This topics lists out the detailed battery specifications.

Table 20. Battery specifications

42 Whr (3 Cell) Prismatic with ExpressCharge	
Type	Li-polymer
Dimension	
Length	184 mm (7.24 inches)
Width	97 mm (3.82 inches)
Weight	185.00 g
Height	5.9 mm (0.232 inches)
Voltage	11.4 VDC
Typical Amp-hour capacity	3.5 Ahr
Typical Watt-hour capacity	42 Whr
Temperature	
Operating	0 °C to 35 °C (32 °F to 95 °F) - Charge: 0 °C to 60 °C (32 °F to 140 °F) - Discharge: 0 °C to 70 °C (32 °F to 158 °F)
Non-operating	−40 °C to 65 °C (−40 °F to 149 °F)
Charging time	
Express Charge mode	0~15°C: 4 hours 16~45°C: 2 hours 46~60°C: 3 hours
Standard mode	0~15°C: 4 hours 16~60°C: 3 hours
ExpressCharge capable	Yes (non-LLC only)
BATTMAN capable	Yes

Keyboard

Table 21. Keyboard Specifications

Number of keys	82 (US), 83 (UK), 84 (BZ), 86 (JP)
Size	X= 19.05 mm key pitch Y= 18.05 mm key pitch
Backlit keyboard option	NA

Keyboard Hot Key Definitions

Table 22. Keyboard hot key definitions

Fn Key Combination	Function
Fn+ESC	Fn Toggle
Fn+ F1	Speaker Mute
Fn + F2	Volume Down
Fn + F3	Volume Up
Fn + F4	Mic Mute
Fn + F5	Num Lock
Fn + F6	Scroll Lock
Fn + F8	Display Toggle (Win + P)
Fn + F9	Search
Fn + F10	No function
Fn + F11	Print Screen
Fn + F12	Insert
Fn + Home	Toggle Wireless On/Off
Fn + End	Sleep
Fn + Up arrow	Brightness up
Fn + down arrow	Brightness down

FnKey Mode:
Standard = The F1-F12 keys behave as function keys. Holding <Fn> is required to access their secondary functions.

Touchpad

Table 23. Touchpad

Dimensions	
Width	100 mm

Dimensions

Height	55 mm
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Supported Gestures

Windows 10

Cursor moving	Supported
Clicking/ tapping	Supported
Click and drag	Supported
2-finger scroll	Supported
2-finger pinch/zoom	Supported
2-finger tapping	Supported
3-finger (Invoke Cortana)	Supported
3-finger (See all open windows)	Supported
3-finger (Show the desktop)	Supported
3-finger (Switch between open windows)	Supported
4-finger (Invoke Action Center)	Supported
4-finger (Switch virtual desktops)	Supported

Display specifications

This topics lists out the detailed display specifications.

Table 24. Display specifications

11.6-inch HD IPS Touch with Microsoft Pen support

Type	HD Ultra Slim
Luminance/Brightness (typical)	HD 200 nits
Diagonal	11.6 inches
Native Resolution	HD 1366 x 768
Megapixels (millions of pixels)	HD 1.04
Pixels per Inch (PPI)	135 for HD
Contrast Ratio (typical)	800:1 for HD
Refresh Rate	60 Hz
Horizontal Viewing Angle	HD +80/- 80 degrees
Vertical Viewing Angle	HD +80/-80 degrees
Pixel Pitch	HD 0.1875 x 0.1875 mm
Power Consumption (max)	HD 3. 425 W

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.