

При обращении используйте промокод AND-PDF и получите скидку.

Dell Precision 7730

Setup and specifications guide



При обращении используйте промокод AND-PDF и получите скидку.

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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Contents

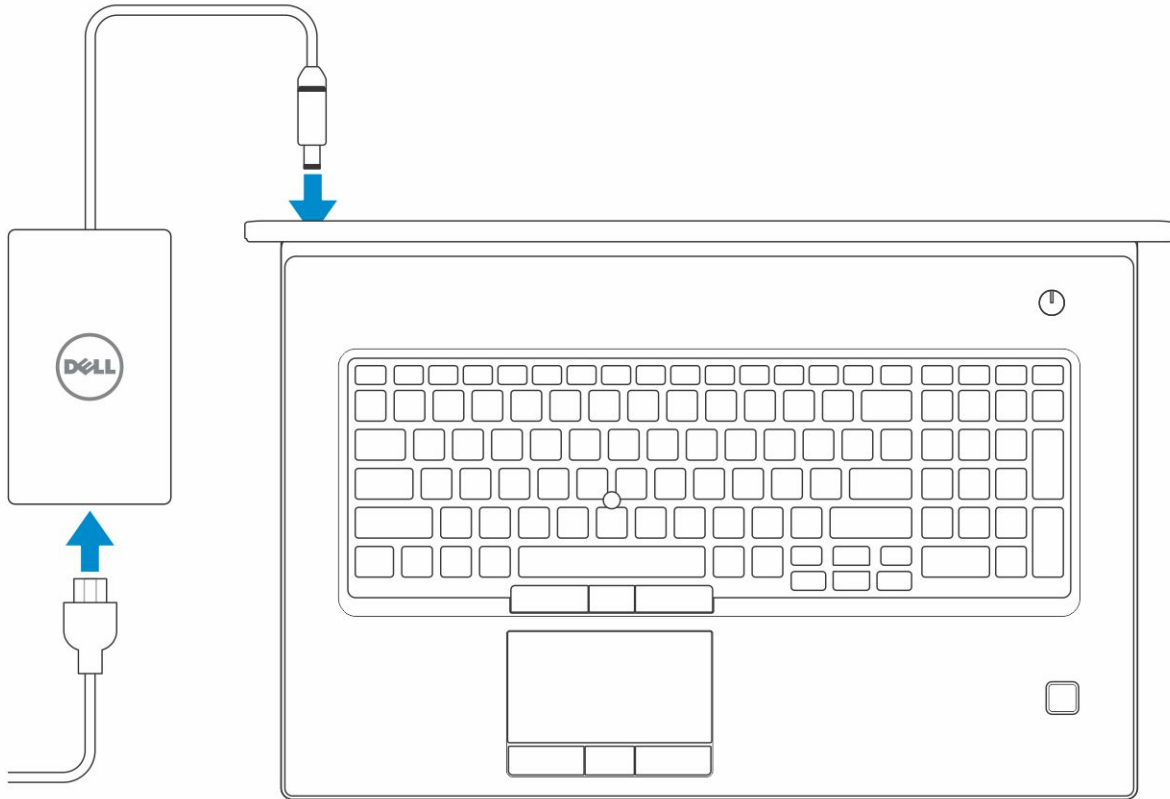
| | |
|--|-----------|
| 1 Set up your computer | 5 |
| 2 Chassis | 8 |
| Front open view..... | 8 |
| Left view..... | 9 |
| Right view..... | 9 |
| Palmrest view..... | 10 |
| Back view..... | 10 |
| Bottom view..... | 11 |
| 3 System specifications | 12 |
| Base..... | 12 |
| System information..... | 13 |
| Processor..... | 13 |
| Memory..... | 13 |
| Storage..... | 14 |
| System board connectors..... | 14 |
| Media card-reader..... | 15 |
| Audio..... | 15 |
| Video..... | 15 |
| Camera..... | 17 |
| Wireless..... | 17 |
| Ports and connectors..... | 17 |
| Communications..... | 18 |
| Contactless smart card..... | 18 |
| Display..... | 18 |
| Keyboard..... | 19 |
| Touchpad..... | 20 |
| Operating system..... | 20 |
| Battery..... | 20 |
| Power adapter..... | 21 |
| Dimensions and weight..... | 21 |
| Security..... | 22 |
| 4 System setup | 23 |
| BIOS overview..... | 23 |
| General options..... | 24 |
| System configuration..... | 24 |
| Video screen options..... | 27 |
| Security..... | 27 |
| Secure boot..... | 29 |
| Intel Software Guard Extensions options..... | 30 |
| Performance..... | 30 |

При обращении используйте промокод AND-PDF и получите скидку.

| | |
|--|-----------|
| Power management..... | 31 |
| Post behavior..... | 32 |
| Virtualization support..... | 33 |
| Wireless options..... | 33 |
| Maintenance..... | 34 |
| System logs..... | 34 |
| 5 Software..... | 36 |
| Operating system..... | 36 |
| Downloading drivers..... | 36 |
| Network adapter drivers..... | 36 |
| Audio drivers..... | 37 |
| Display adapter..... | 37 |
| Security drivers..... | 37 |
| Storage controller..... | 37 |
| System device drivers..... | 37 |
| Other device drivers..... | 39 |
| Identifying Windows 10 OS version..... | 40 |
| 6 Getting help..... | 41 |
| Contacting Dell..... | 41 |

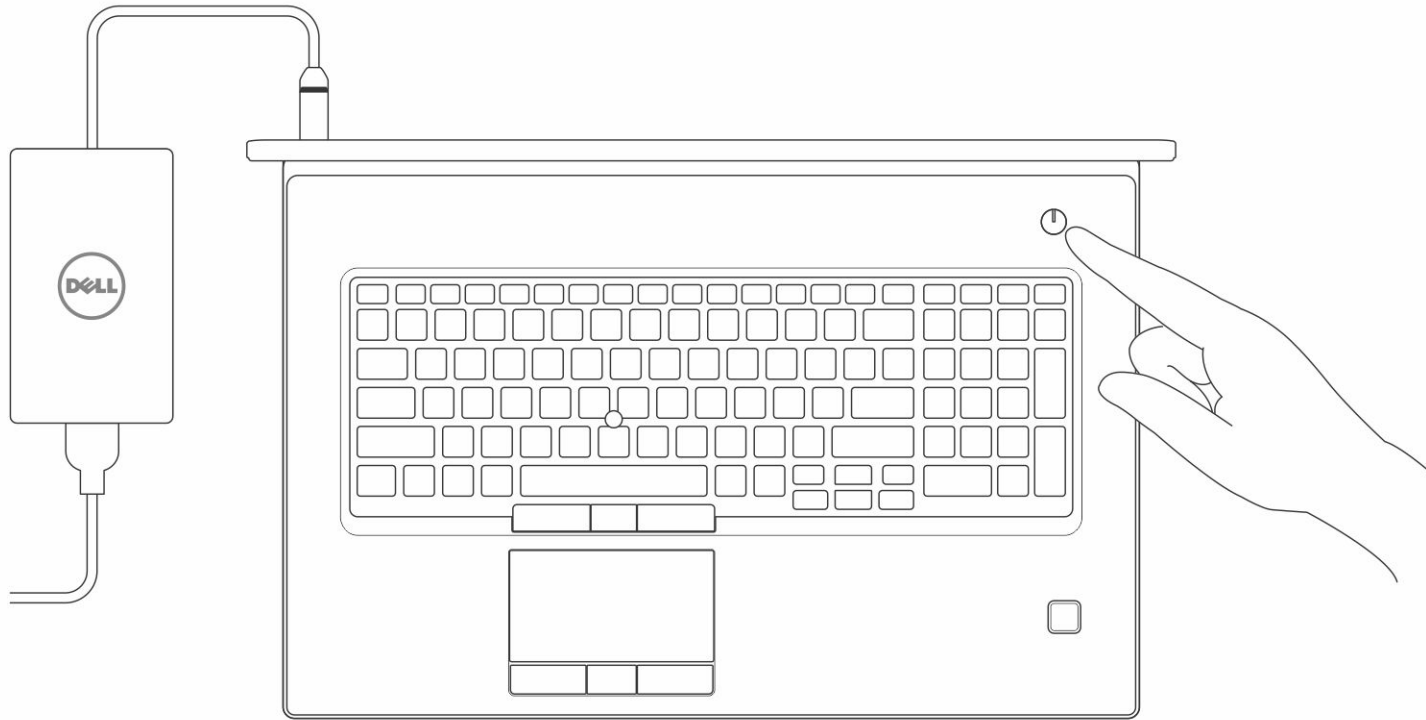
Set up your computer

- 1 Connect the power cable.



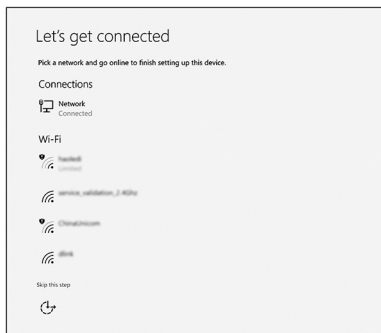
- 2 Press the power button.

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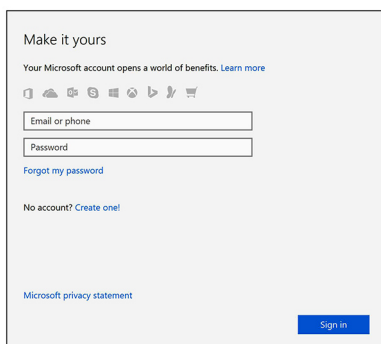


3 Follow the instructions on the screen to finish Windows setup:

a Connect to a network.



b Sign-in to your Microsoft account or create a new account.



4 Locate Dell apps.

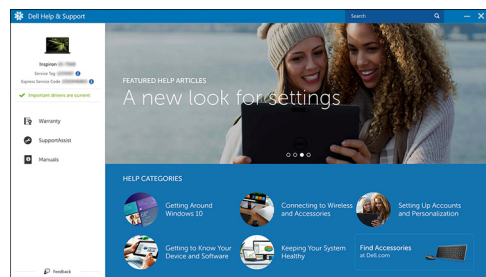
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Table 1. Locate Dell apps



Register your computer

Dell Help & Support



SupportAssist — Check and update your computer

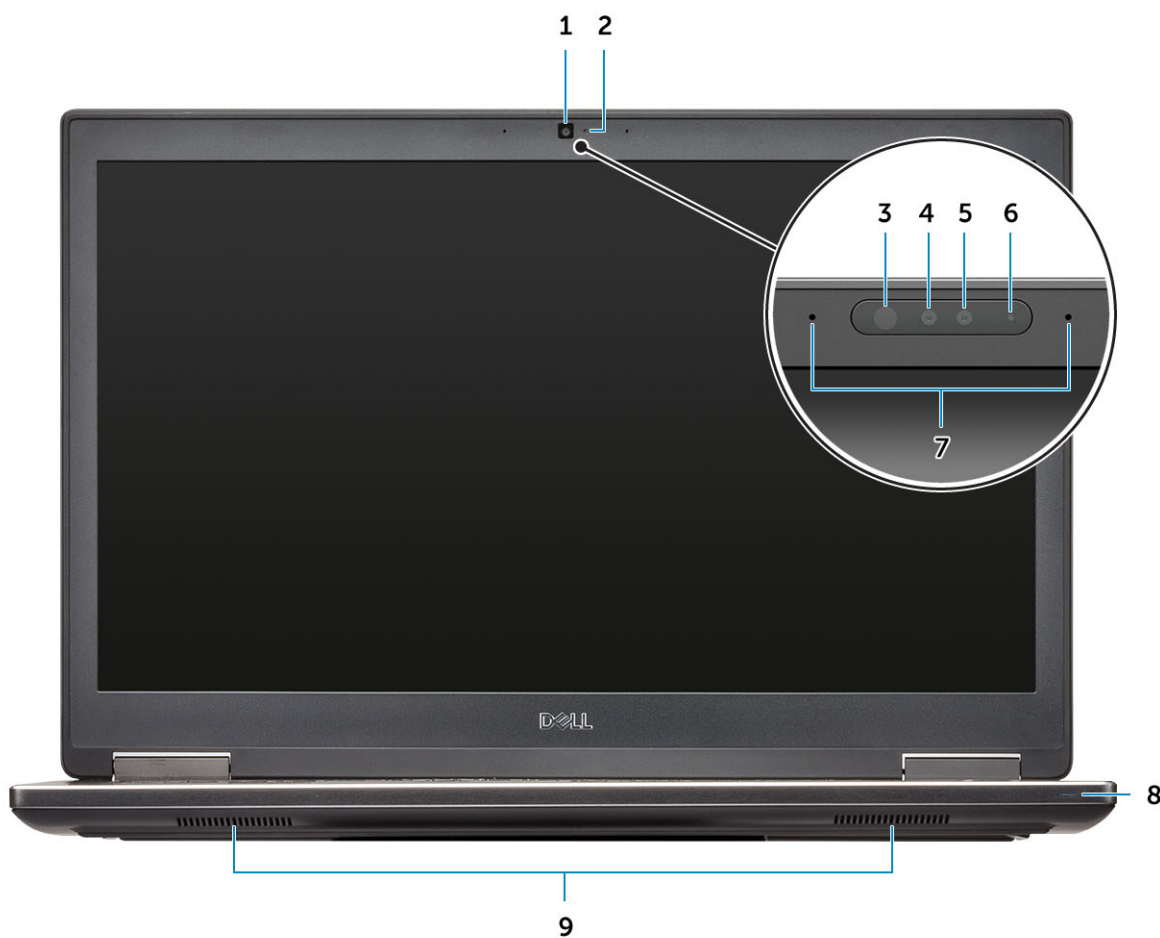
Chassis

This chapter illustrates the multiple chassis views along with the ports and connectors and also explains the FN hot key combinations.

Topics:

- Front open view
- Left view
- Right view
- Palmrest view
- Back view
- Bottom view

Front open view



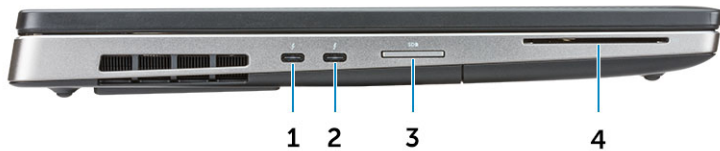
- 1 Camera (optional)
- 3 Infrared (IR) emitter (optional)

- 2 Camera-status light (optional)
- 4 Infrared (IR) camera (optional)

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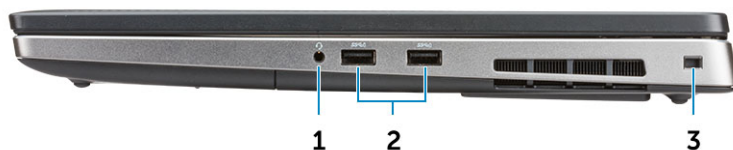
- | | | | |
|---|------------------------|---|--------------------------------|
| 5 | Camera (optional) | 6 | Camera-status light (optional) |
| 7 | Microphones (optional) | 8 | Battery status light |
| 9 | Speakers | | |

Left view



- | | | | |
|---|---------------------------|---|---------------------------|
| 1 | Thunderbolt 3 Type-C port | 2 | Thunderbolt 3 Type-C port |
| 3 | SD Card reader | 4 | Smartcard reader |

Right view



- | | | | |
|---|---------------------|---|-------------------------------------|
| 1 | Headset port | 2 | USB 3.1 Gen 1 ports with PowerShare |
| 3 | Security cable slot | | |

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Palmrest view



- | | | | |
|---|------------------------------------|---|-------------------------------|
| 1 | Power button | 2 | Fingerprint reader (optional) |
| 3 | Contactless Card Reader (optional) | 4 | Touchpad |

Back view



- | | | | |
|---|----------------------|---|------------------------------------|
| 1 | HDMI port | 2 | Mini DisplayPort |
| 3 | RJ45 Network port | 4 | USB 3.1 Gen 1 port with PowerShare |
| 5 | Power connector port | | |

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Bottom view



- 1 Service tag label
- 3 Battery door

- 2 Battery door release latch

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.

Topics:

- Base
- System information
- Processor
- Memory
- Storage
- System board connectors
- Media card-reader
- Audio
- Video
- Camera
- Wireless
- Ports and connectors
- Communications
- Contactless smart card
- Display
- Keyboard
- Touchpad
- Operating system
- Battery
- Power adapter
- Dimensions and weight
- Security

Base

Table 2. Base

Base

Dell Precision 7730 CTO Type C SC Base

Dell Precision 7730 TAA Type C SC Base

Dell Precision 7730 BTX Type C SC Base

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System information

Table 3. System information

| | |
|------------------------|------------------------------------|
| Chipset | Intel CM246 chipset |
| DRAM bus width | 64-bit per channel (total 128 bit) |
| FLASH EPROM | 48 kHz |
| PCIe bus | 8 Gbps |
| External bus frequency | DMI 3.0-8GT/s |

Processor

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

Table 4. Processor specifications

| Type | UMA Graphics |
|--|---------------------------|
| Intel Core Processor i5-8300H, 4 Core, 8M Cache, 2.30GHz up to 4.0GHz Turbo, 45W | Integrated Intel UHD 630 |
| Intel Core Processor i5-8400H, 4 Core, 8M Cache, 2.50GHz up to 4.1GHz Turbo, 45W, vPro | Integrated Intel UHD 630 |
| Intel Core Processor i7-8750H, 6 Core, 9M Cache, 2.20GHz up to 4.1GHz Turbo, 45W | Integrated Intel UHD 630 |
| Intel Core Processor i7-8850H, 6 Core, 9M Cache, 2.60GHz up to 4.3GHz Turbo, 45W, vPro | Integrated Intel UHD 630 |
| Intel Core Processor i9-8950HK, 6 Core, 12MB Cache, 2.90GHz up to 4.60GHz Turbo, 45W | Integrated Intel UHD 630 |
| Intel Xeon E-2176M, 6 Core Xeon, 12M Cache, 2.70GHz up to 4.40GHz Turbo, 45W, vPro | Integrated Intel UHD P630 |
| Intel Xeon E-2186M, 6 Core Xeon, 12M Cache, 2.90GHz up to 4.60GHz Turbo, 45W, vPro | Integrated Intel UHD P630 |

Memory

Table 5. Memory specifications

| | |
|------------------------------|----------|
| Minimum memory configuration | 8 GB |
| Maximum memory configuration | 128 GB |
| Number of slots | 4 SODIMM |

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| | |
|-----------------------------------|--|
| Maximum memory supported per slot | 32 GB |
| Memory options | <ul style="list-style-type: none"> • 8 GB - 1 x 8 GB • 16 GB - 2 x 8 GB • 32 GB - 2 x 16 GB • 32 GB - 4 x 8 GB • 64 GB - 4 x 16 GB • 64 GB - 2 x 32 GB • 128 GB - 4 x 32 GB |
| Type | DDR4 SDRAM ECC and Non-ECC memory |
| Speed | <ul style="list-style-type: none"> • 2400 MHz • 2666 MHz • 3200 MHz |

Storage

Table 6. Storage specifications

| Type | Form factor | Interface | Security option | Capacity |
|---|--|--|-----------------|--|
| Four Solid-State Drive (SSD) | M.2 2280 | <ul style="list-style-type: none"> • SATA AHCI, Up to 6 Gbps • PCIe 3 x4 NVMe, Up to 32 Gbps | SED | <ul style="list-style-type: none"> • Up to 512 GB • Up to 2 TB |
| One 2.5" Hard-Disk Drive (HHD) with 4 cell battery only | Approximately (2.760 x 3.959 x 0.374 inches) | SATA AHCI, Up to 6 Gbps | SED FIPS | Up to 2 TB |

System board connectors

Table 7. System board connectors

| | |
|-----------------------------|--|
| M.2 Connectors | <ul style="list-style-type: none"> • Slot 1 3030 socket 1 key A • Slot 2 3042 socket 2 key B • Slot 3 2280 socket 3 key M • Slot 4 2280 socket 3 key M • Slot 5 2280 socket 3 key M • Slot 6 2280 socket 3 key M |
| Serial ATA (SATA) connector | 1 (with 4 cell battery only) |

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Media card-reader

Table 8. Media-card reader specifications

| | |
|-----------------|--|
| Type | One SD-card slot |
| Supported cards | <ul style="list-style-type: none"> • SD • SDHC • SDXC |

Audio

Table 9. Audio specifications

| | |
|----------------------------|--|
| Controller | Realtek ALC3281 |
| Type | Four-channel high-definition audio |
| Speakers | Two (Directional speakers) |
| Interface | <ul style="list-style-type: none"> • Universal audio jack • Stereo headphone • Stereo headset • Stereo line in • Microphone in • Stereo line out |
| Internal speaker amplifier | 2W (RMS) per channel |

Video

Table 10. Video specifications

| Controller | Type | CPU Dependency | Graphics memory type | Capacity | External display support | Maximum resolution |
|-------------------------|----------|---|----------------------|----------------------|--------------------------|--|
| Intel UHD Graphics 630 | UMA | <ul style="list-style-type: none"> • Intel Core Processor i5 • Intel Core Processor i7 • Intel Core Processor i9 | Integrated | Shared system memory | HDMI/DP/eDP | 4096×2304 |
| Intel UHD Graphics P630 | UMA | Intel Xeon | Integrated | Shared system memory | HDMI/DP/eDP | 4096×2304 |
| Radeon Pro WX 4150 | Discrete | NA | GDDR5 | 4 GB | HDMI/mDP/eDP/USB-C | <ul style="list-style-type: none"> • Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz • Dual DisplayPort 1.4 - 7680 x |

При обращении используйте промокод AND-PDF и получите скидку.

| Controller | Type | CPU Dependency | Graphics memory type | Capacity | External display support | Maximum resolution |
|---------------------|----------|----------------|----------------------|----------|--------------------------|--|
| | | | | | | 4320 (8k) @ 60 Hz • HDMI 2.0 - 4096 x 2160 (4K) @ 60 Hz |
| Radeon Pro WX 7100 | Discrete | NA | GDDR5 | 8 GB | HDMI/mDP/eDP/USB-C | • Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz • Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz • HDMI 2.0 - 4096 x 2160 (4K) @ 60 Hz |
| NVIDIA Quadro P3200 | Discrete | NA | GDDR5 | 6 GB | eDP/mDP/HDMI/Type-C | Max Digital: • Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz (mDP/type-c to DP) • Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz (mDP/type-c to DP) |
| NVIDIA Quadro P4200 | Discrete | NA | GDDR5 | 8 GB | eDP/mDP/HDMI/Type-C | Max Digital: • Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz (mDP/type-c to DP) • Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz (mDP/type-c to DP) |
| NVIDIA Quadro P5200 | Discrete | NA | GDDR5 | 16 GB | eDP/mDP/HDMI/Type-C | Max Digital: • Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz (mDP/type-c to DP) • Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz (mDP/type-c to DP) |

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Camera

Table 11. Camera specifications

| | |
|------------------------|---|
| Resolution | Camera: <ul style="list-style-type: none">• Still image: 0.92 megapixels• Video: 1280x720 at 30 fps Infrared camera (optional on FHD non-touch): <ul style="list-style-type: none">• Still image: 0.30 megapixels• Video: 340x340 at 60 fps |
| Diagonal viewing angle | <ul style="list-style-type: none">• Camera - 86.7 degrees• Infrared camera - 70 degrees |

Wireless

Table 12. Wireless specifications

| | |
|-----------------------|--------------------|
| Maximum transfer rate | 867 Mbps |
| Frequency bands | 2.4 GHz/5 GHz |
| Encryption | 64-bit/128-bit WEP |

Ports and connectors

Table 13. Ports and connectors

| | |
|--------------------|--|
| Memory card reader | SD 4.0 memory card reader |
| Smart card reader | Standard |
| USB | Three USB 3.1 Gen 1 ports with PowerShare |
| Security | Noble wedge lock slot |
| Docking port | Cable dock support |
| Audio | <ul style="list-style-type: none">• Headset port• Noise reduction array microphones• Microphone (Optional) |
| Video | <ul style="list-style-type: none">• Mini DisplayPort 1.4• HDMI 2.0 |
| Network adapter | One RJ-45 connector |
| Thunderbolt | Two thunderbolt 3 Type-C ports |

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Communications

Table 14. Communications

| | |
|-----------------|--|
| Network adapter | Integrated Intel i219LM10/100/1000 Mb/s Ethernet (RJ-45) with Intel Remote Wake UP and PXE |
| Wireless | <ul style="list-style-type: none">• Wi-Fi 802.11n/ac via M.2• Bluetooth |

Contactless smart card

Table 15. Contactless smart card

| | |
|-------------------|---------------------|
| Type | FIPS 201 Smart Card |
| ISO certification | ISO14443A |

Display

Table 16. Display specifications

| | |
|--------------------------------|---|
| Type | <ul style="list-style-type: none">• 17.3-inch HD+ TN 1600x900 AG non-touch, No Mic, 60% color gamut• 17.3-inch HD+ TN 1600x900 AG non-touch, Mic, 60% color gamut• 17.3-inch HD+ TN 1600x900 AG non-touch, Cam/Mic, 60% color gamut• 17.3-inch UltraSharp FHD WVA 1920x1080 AG, NT, No Mic, w/ Prem Panel Guar 72% color gamut• 17.3-inch UltraSharp FHD WVA 1920x1080 AG, NT, Mic, w/ Prem Panel Guar 72% color gamut• 17.3-inch UltraSharp FHD WVA 1920x1080 AG, NT, Cam/Mic, w/Prem Panel Guar 72% color gamut• 17.3-inch UltraSharp FHD WVA 1920x1080 AG, NT, No WWAN, IR Cam/Mic, w/Prem Panel Guar 72% color gamut• 17.3-inch UltraSharp UHD WVA 3840x2160 AG NT, No WWAN, Cam/Mic, w/Prem Panel Guar 100% color gamut |
| Luminance/Brightness (typical) | <ul style="list-style-type: none">• 220 nits (HD+ 60% color gamut)• 300 nits (FHD 72% color gamut)• 400 nits (UHD Adobe 100% color gamut) |
| Height (Active area) | <ul style="list-style-type: none">• HD+ - 214.92 mm (8.46 inches)• FHD - 214.81 mm (8.46 inches)• UHD - 214.94 mm or 214.81mm (8.46 inches) |
| Width (Active area) | <ul style="list-style-type: none">• HD+ - 382.08 mm (15.04 inches)• FHD - 381.89 mm (15.04 inches)• UHD - 382.12 mm or 381.89 mm (15.04 inches) |

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| | |
|--------------------------------|--|
| Diagonal | <ul style="list-style-type: none">• HD+ - 438.38 mm (17.30 inches)• FHD - 438.16 mm (17.30 inches)• UHD - 438.42 mm or 438.16mm (17.30 inches) |
| Megapixels | <ul style="list-style-type: none">• HD+ - 1.44• FHD - 2.07• UHD - 8.29 |
| Pixels Per Inch (PPI) | <ul style="list-style-type: none">• HD+ - 106• FHD - 127• UHD - 255 |
| Contrast ratio | <ul style="list-style-type: none">• HD+ - 500:1• FHD - 700:1• UHD - 1000:1 |
| Refresh rate | 60 Hz |
| Horizontal viewing angle (min) | <ul style="list-style-type: none">• HD+ - 40/40 degrees• FHD - 80/80 degrees• UHD - 80/80 degrees |
| Vertical viewing angle (min) | <ul style="list-style-type: none">• HD+ - 10/30 degrees• FHD - 80/80 degrees• UHD - 80/80 degrees |
| Pixel pitch | <ul style="list-style-type: none">• HD+ - 0.2388 mm• FHD - 0.1989 mm• UHD - 0.0995 mm |
| Power consumption (max) | <ul style="list-style-type: none">• 4.4 W (HD+ 60% color gamut)• 8 W (FHD 72% color gamut)• 14 W (UHD Adobe 100% color gamut) |

Keyboard

Table 17. Keyboard specifications

| | |
|------------------|---|
| Number of keys | <ul style="list-style-type: none">• 103 (U.S. and Canada)• 104 (Europe)• 106 (Brazil)• 107 (Japan) |
| Size | Full sized <ul style="list-style-type: none">• X= 19.00 mm key pitch• Y= 19.00 mm key pitch |
| Backlit keyboard | Optional |

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Layout

QWERTY/AZERTY/Kanji

Touchpad

Table 18. Touchpad specifications

| | |
|-------------|--|
| Resolution | <ul style="list-style-type: none">Horizontal: 1048Vertical: 984 |
| Dimensions | <ul style="list-style-type: none">Width: 3.92 inches (99.50 mm)Height: 2.09 inches (53 mm) |
| Multi-touch | Configurable single finger and multi-finger gestures |

Operating system

Table 19. Operating system

| | |
|-----------------------------|--|
| Operating systems supported | <ul style="list-style-type: none">Windows 10 Home (64 bit)Windows 10 Professional (64 bit)Windows 10 Pro for Workstations (64 bit)Ubuntu 16.04 LTS (64bit)Red Hat Linux Enterprise 7.5 |
|-----------------------------|--|

Battery

Table 20. Battery

| | |
|------------------|---|
| Type | <ul style="list-style-type: none">64 WHr Lithium ion 4 cell battery with ExpressCharge97 WHr Lithium ion 6 cell battery with ExpressCharge97 WHr Lithium ion 6 cell battery with three year warranty |
| Dimension | <ol style="list-style-type: none">64 WHr "smart" lithium-ion<ul style="list-style-type: none">Length - 222.40 mm (8.76 in)Width - 73.80 mm (2.90 in)Height - 11.15 mm (0.44 in)Weight - 298.00 g97 WHr "smart" lithium-ion<ul style="list-style-type: none">Length - 332.00 mm (13.07 in)Width - 73.80 mm (2.90 in)Height - 11.15 mm (0.439 in)Weight - 445.00 g |
| Weight (maximum) | <ul style="list-style-type: none">64 WHr - 2.98 kg (0.66 lb)97 WHr - 4.45 kg (0.98 lb) |

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| | |
|--|--|
| Voltage | <ul style="list-style-type: none">• 64 WHr - 7.8 VDC• 97 WHr - 11.4 VDC |
| Life span | 300 discharge/recharge cycles |
| Charging time when the computer is off (approximate) | 4 hours |
| Operating time | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions |
| Temperature range: Operating | 0°C to 35°C (32°F to 95°F) |
| Temperature range: Storage | -40°C to 65°C (-40°F to 149°F) |
| Coin-cell battery | ML1220 |

Power adapter

Table 21. Power adapter specifications

| | |
|-----------------------------------|-------------------------------|
| Type | 240 W adapter |
| Input Voltage | 100 to 240 VAC |
| Input current (maximum) | 240 W - 3.5 A |
| Input frequency | 50 Hz to 60 Hz |
| Output current | 240 W - 12.31 A (continuous) |
| Rated output voltage | 19.5 VDC |
| Temperature range (Operating) | 0° to 40° C (32° to 104° F) |
| Temperature range (Non-Operating) | 40° to 70° C (-40° to 158° F) |

Dimensions and weight

Table 22. Dimensions and weight

| | |
|--------|---|
| Height | Front height - 1.03 inches (26.15 mm) Rear height - 1.19 inches (30.30 mm) |
| Width | 16.31 inches (414.20 mm) |
| Depth | 10.78 inches (273.7 mm) |
| Weight | Starting 6.81 lbs (3.09 kg) |

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Security

Table 23. Security

| | |
|-----------------------------------|----------------------------|
| Trusted Platform Module (TPM) 2.0 | Integrated on system board |
| Smartcard | Yes |

System setup

System setup enables you to manage your notebook hardware and specify BIOS level options. From the System setup, you can:

- Change the NVRAM settings after you add or remove hardware
- View the system hardware configuration
- Enable or disable integrated devices
- Set performance and power management thresholds
- Manage your computer security

Topics:

- [BIOS overview](#)
- [General options](#)
- [System configuration](#)
- [Video screen options](#)
- [Security](#)
- [Secure boot](#)
- [Intel Software Guard Extensions options](#)
- [Performance](#)
- [Power management](#)
- [Post behavior](#)
- [Virtualization support](#)
- [Wireless options](#)
- [Maintenance](#)
- [System logs](#)

BIOS overview

⚠ CAUTION: Unless you are an expert computer user, do not change the settings in the BIOS Setup program. Certain changes can make your computer work incorrectly.

ℹ NOTE: Before you change BIOS Setup program, it is recommended that you write down the BIOS Setup program screen information for future reference.

Use the BIOS Setup program for the following purposes:

- Get information about the hardware installed in your computer, such as the amount of RAM and the size of the hard drive.
- Change the system configuration information.
- Set or change a user-selectable option, such as the user password, type of hard drive installed, and enabling or disabling base devices.

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General options

Table 24. General

| Option | Description |
|--------------------------------|--|
| System Information | <p>This section lists the primary hardware features of your computer.</p> <p>The options are:</p> <ul style="list-style-type: none">• System Information• Memory Configuration• Processor Information• Device Information |
| Battery Information | <p>Displays the battery status and the type of AC adapter connected to the computer.</p> |
| Boot Sequence | <p>Allows you to change the order in which the computer attempts to find an operating system.</p> <p>The options are:</p> <ul style="list-style-type: none">• Windows Boot Manager• Boot List Option: Allows you to change the boot list options.<p>Click one of the following options:</p><ul style="list-style-type: none">– Legacy External Devices– UEFI—Default |
| Advanced Boot Options | <p>Allows you to Enable Legacy Option ROMs.</p> <p>The options are:</p> <ul style="list-style-type: none">• Enable Legacy Option ROMs—Default• Enable Attempt Legacy Boot |
| UEFI Boot Path Security | <p>Allows you to control whether the system prompts the user to enter the Admin password when booting to a UEFI boot path.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none">• Always, Except Internal HDD—Default• Always• Never |
| Date/Time | <p>Allows you to set the date and time. The change to the system date and time takes effect immediately.</p> |

System configuration

Table 25. System Configuration

| Option | Description |
|-----------------------|--|
| Integrated NIC | Allows you to configure the integrated network controller. |

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| Option | Description |
|--|---|
| SATA Operation | <p>Click one of the following options:</p> <ul style="list-style-type: none">• Disabled• Enabled• Enabled w/PXE—Default <p>Allows you to configure the operating mode of the integrated SATA hard-drive controller.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none">• Disabled• AHCI• RAID On—Default <p>NOTE: SATA is configured to support RAID mode.</p> |
| Drives | <p>Allows you to enable or disable various drives on board.</p> <p>The options are:</p> <ul style="list-style-type: none">• SATA-0• SATA-1• SATA-4• M.2 PCIe SSD-0• M.2 PCIe SSD-1 <p>All the options are set by default.</p> |
| SMART Reporting | <p>This field controls whether hard drive errors for integrated drives are reported during system startup. This technology is part of the SMART (Self Monitoring Analysis and Reporting Technology) specification. This option is disabled by default.</p> <ul style="list-style-type: none">• Enable SMART Reporting |
| USB Configuration | <p>Allows you to enable or disable the internal/integrated USB configuration.</p> <p>The options are:</p> <ul style="list-style-type: none">• Enable USB Boot Support• Enable External USB Ports <p>All the options are set by default.</p> <p>NOTE: USB keyboard and mouse always work in the BIOS setup irrespective of these settings.</p> |
| Dell Type-C Dock Configuration | <p>Always allow Dell docks. This setting affects only the Type-C ports connected to a Dell WD or TB dock.</p> |
| Thunderbolt Adapter Configuration | <p>Allows you to configure the Thunderbolt adapter security settings within the operating system.</p> <p>The options are:</p> <ul style="list-style-type: none">• Enable Thunderbolt Technology Support—Default• Enable Thunderbolt Adapter Boot Support• Enable Thunderbolt Adapter Pre-boot Modules |

При обращении используйте промокод AND-PDF и получите скидку.

| Option | Description |
|---|---|
| Thunderbolt Auto Switch USB PowerShare | <p>Choose any one option:</p> <ul style="list-style-type: none">• Security level - No Security• Security level - User Authorization—Default• Security level - Secure Connect• Security level - Display Port Only <p>Allows auto switch the thunderbolt option.</p> <p>This field configures the USB PowerShare feature behavior. This option allows you to charge external devices using the stored system battery power through the USB PowerShare port (disabled by default).</p> <ul style="list-style-type: none">• Enable USB PowerShare |
| Audio | <p>Allows you to enable or disable the integrated audio controller. By default, the Enable Audio option is selected.</p> <p>The options are:</p> <ul style="list-style-type: none">• Enable Microphone• Enable Internal Speaker <p>This option is set by default.</p> |
| Keyboard Illumination | <p>This field lets you choose the operating mode of the keyboard illumination feature. The keyboard brightness level can be set from 0% to 100%.</p> <p>The options are:</p> <ul style="list-style-type: none">• Disabled• Dim• Bright—Default |
| Keyboard Backlight Timeout on AC | <p>Allows to define the timeout value for the keyboard backlight when an AC adapter is plugged in the system. The Keyboard Backlight timeout value is only in effect when the backlight is enabled.</p> <ul style="list-style-type: none">• 5 seconds• 10 seconds—Default• 15 seconds• 30 seconds• 1 minute• 5 minutes• 15 minutes• Never |
| Keyboard Backlight Timeout on Battery | <p>Allows to define the timeout value for the keyboard backlight when the system is running only on battery power. The Keyboard Backlight timeout value is only in effect when the backlight is enabled.</p> <ul style="list-style-type: none">• 5 seconds• 10 seconds—Default• 15 seconds• 30 seconds• 1 minute• 5 minutes |

При обращении используйте промокод AND-PDF и получите скидку.

| Option | Description |
|------------------------------|---|
| | <ul style="list-style-type: none">• 15 minutes• Never |
| Unobtrusive Mode | Allows you to turn off all light and sound emissions in the system when you press Fn+F7. This option is disabled by default. |
| Miscellaneous devices | Allows you to enable or disable various on board devices. <ul style="list-style-type: none">• Enable Camera—Default• Enable Hard Drive Free Fall Protection—Default• Enable Secure Digital (SD) Card—Default• Secure Digital (SD) Card Boot• Secure Digital Card (SD) Read-Only Mode |

Video screen options

Table 26. Video

| Option | Description |
|-----------------------|---|
| LCD Brightness | Allows you to set the display brightness depending upon the power source. On Battery(50% is default) and On AC (100 % default). |

Security


Table 27. Security

| Option | Description |
|------------------------|---|
| Admin Password | <p>Allows you to set, change, or delete the administrator(admin) password.</p> <p>The entries to set password are:</p> <ul style="list-style-type: none">• Enter the old password:• Enter the new password:• Confirm new password: <p>Click OK once you set the password.</p> <p>i NOTE: For the first time login, "Enter the old password:" field is marked to "Not set". Hence, password has to be set for the first time you login and then you can change or delete the password.</p> |
| System Password | <p>Allows you to set, change, or delete the System password.</p> <p>The entries to set password are:</p> <ul style="list-style-type: none">• Enter the old password:• Enter the new password:• Confirm new password: <p>Click OK once you set the password.</p> <p>i NOTE: For the first time login, "Enter the old password:" field is marked to "Not set". Hence, password has to be set for the first time you login and then you can change or delete the password.</p> |

При обращении используйте промокод AND-PDF и получите скидку.

| Option | Description |
|--------------------------------------|--|
| Strong Password | <p>Allows you to enforce the option to always set strong password.</p> <ul style="list-style-type: none">• Enable Strong Password <p>This option is not set by default.</p> |
| Password Configuration | <p>You can define the length of your password. Min = 4, Max = 32</p> |
| Password Bypass | <p>Allows you to bypass the System password and the Internal HDD password, when it is set, during a system restart.</p> <p>Click one of the options:</p> <ul style="list-style-type: none">• Disabled—Default• Reboot bypass |
| Password Change | <p>Allows you to change the System password when the administrator password is set.</p> <ul style="list-style-type: none">• Allow Non-Admin Password Changes <p>This option is set by default.</p> |
| Non-Admin Setup Changes | <p>Allows you to determine whether changes to the setup options are allowed when an Administrator Password is set. If disabled the setup options are locked by the admin password.</p> <ul style="list-style-type: none">• Allow Wireless Switch Changes <p>This option is not set by default.</p> |
| UEFI Capsule Firmware Updates | <p>Allows you to update the system BIOS via UEFI capsule update packages.</p> <ul style="list-style-type: none">• Enable UEFI Capsule Firmware Updates <p>This option is set by default.</p> |
| TPM 2.0 Security | <p>Allows you to enable or disable the Trusted Platform Module (TPM) during POST.</p> <p>The options are:</p> <ul style="list-style-type: none">• TPM On—Default• Clear• PPI Bypass for Enable Command—Default• PPI Bypass for Disbale Command• PPI Bypass for Clear Command• Attestation Enable—Default• Key Storage Enable—Default• SHA-256—Default |
| Computrace (R) | <p>Allows you to activate or disable the optional Computrace software.</p> <p>The options are:</p> <ul style="list-style-type: none">• Deactivate• Disable• Activate—Default |
| OROM keyboard Access | <p>Allows you to enable or disable Option ROM configuration screens via hotkeys during boot.</p> <ul style="list-style-type: none">• Enable—Default• Disable |

При обращении используйте промокод AND-PDF и получите скидку.

| Option | Description |
|--------------------------------|---|
| | <ul style="list-style-type: none">• One Time Enable |
| Admin Setup Lockout | Allows you to prevent users from entering Setup when an administrator password is set. <ul style="list-style-type: none">• Enable Admin Setup Lockout This option is not set by default. |
| Master Password Lockout | Allows you to disable master password support. <ul style="list-style-type: none">• Enable Master Password Lockout This option is not set by default. |
| |  NOTE: Hard Disk password should be cleared before the settings can be changed. |
| SMM Security Mitigation | Allows you to enable or disable additional UEFI SMM Security Mitigation protection. <ul style="list-style-type: none">• SMM Security Mitigation This option is not set by default. |

Secure boot

Table 28. Secure Boot

| Option | Description |
|------------------------------|--|
| Secure Boot Enable | Allows you to enable or disable the Secure Boot Feature. <ul style="list-style-type: none">• Secure Boot Enable—Default |
| Secure Boot Mode | Changes to the Secure Boot operation mode modifies the behaviour of Secure Boot to allow evaluation of UEFI driver signatures. Choose one of the option: <ul style="list-style-type: none">• Deployed Mode—Default• Audit Mode |
| Expert Key Management | Allows you to enable or disable Expert Key Management. <ul style="list-style-type: none">• Enable Custom Mode This option is not set by default. The Custom Mode Key Management options are: <ul style="list-style-type: none">• PK—Default• KEK• db• dbx |

При обращении используйте промокод AND-PDF и получите скидку.

Intel Software Guard Extensions options

Table 29. Intel Software Guard Extensions

| Option | Description |
|----------------------------|---|
| Intel SGX Enable | <p>This field specifies you to provide a secured environment for running code/storing sensitive information in the context of the main OS.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none">• Disabled• Enabled• Software controlled—Default |
| Enclave Memory Size | <p>This option sets SGX Enclave Reserve Memory Size</p> <p>Click one of the following options:</p> <ul style="list-style-type: none">• 32 MB• 64 MB• 128 MB—Default |

Performance

Table 30. Performance

| Option | Description |
|---------------------------|--|
| Multi Core Support | <p>This field specifies whether the process has one or all cores enabled. The performance of some applications improves with the additional cores.</p> <ul style="list-style-type: none">• All—Default• 1• 2• 3 |
| Intel SpeedStep | <p>Allows you to enable or disable the Intel SpeedStep mode of processor.</p> <ul style="list-style-type: none">• Enable Intel SpeedStep <p>This option is set by default.</p> |
| C-States Control | <p>Allows you to enable or disable the additional processor sleep states.</p> <ul style="list-style-type: none">• C states <p>This option is set by default.</p> |
| Intel TurboBoost | <p>Allows you to enable or disable the Intel TurboBoost mode of the processor.</p> <ul style="list-style-type: none">• Enable Intel TurboBoost <p>This option is set by default.</p> |

При обращении используйте промокод AND-PDF и получите скидку.


| Option | Description |
|-----------------------------|---|
| Hyper-Thread Control | Allows you to enable or disable the HyperThreading in the processor. <ul style="list-style-type: none">• Disabled• Enabled—Default |

Power management

Table 31. Power Management

| Option | Description |
|--|--|
| AC Behavior | Allows you to enable or disable the computer from turning on automatically when an AC adapter is connected. <ul style="list-style-type: none">• Wake on AC This option is not set by default. |
| Enable Intel Speed Shift Technology | Allows you to enable or disable the Intel Speed Shift Technology. <ul style="list-style-type: none">• Enabled—Default |
| Auto On Time | Allows you to set the time at which the computer must turn on automatically. <p>The options are:</p> <ul style="list-style-type: none">• Disabled—Default• Every Day• Weekdays• Select Days This option is not set by default. |
| USB Wake Support | Allows you to enable USB devices to wake the system from standby. <ul style="list-style-type: none">• Enable USB Wake Support This option is not set by default. |
| Wireless Radio Control | This option if enabled, will sense the connection of the system to a wired network and subsequently disable the selected wireless radios (WLAN and/or WWAN). Upon disconnection from the wired network the selected wireless radio will be enabled. <ul style="list-style-type: none">• Control WLAN radio• Control WWAN radio This option is not set by default. |
| Wake on LAN | This option allows the computer to power up from the off state when triggered by a special LAN signal. Wake-up from the Standby state is unaffected by this setting and must be enabled in the operating system. This feature only works when the computer is connected to AC power supply. <ul style="list-style-type: none">• Disabled—Default - Does not allow the system to power on by special LAN signals when it receives a wake-up signal from the LAN or wireless LAN.• LAN Only - Allows the system to be powered on by special LAN signals.• WLAN Only - Allows the system to be powered on by special WLAN signals.• LAN or WLAN - Allows the system to be powered on by special LAN or WLAN signals. |

При обращении используйте промокод AND-PDF и получите скидку.

| Option | Description |
|--|---|
| Block Sleep | Allows you to block entering to sleep in OS environment. |
| Advanced Battery Charge Configuration | This option enables you to maximize the battery health. By enabling this option, your system uses the standard charging algorithm and other techniques, during the non-work hours to improve the battery health. |
| Primary Battery Charge Configuration | Allows you to select the charging mode for the battery. The options are: <ul style="list-style-type: none">• Adaptive—Default• Standard - Fully charges your battery at a standard rate.• ExpressCharge- The battery charges over a shorter period of time using Dell's fast charging technology.• Primarily AC use• Custom If Custom Charge is selected, you can also configure Custom Charge Start and Custom Charge Stop.  NOTE: All charging mode may not be available for all the batteries. To enable this option, disable the Advanced Battery Charge Configuration option. |

Post behavior

Table 32. POST Behavior

| Option | Description |
|--------------------------------|---|
| Adapter Warnings | Allows you to enable or disable the system setup (BIOS) warning messages when you use certain power adapters. <ul style="list-style-type: none">• Enable Adapter Warnings—Default |
| Numlock Enable | Allows you to enable or disable the Numlock function when the system boots. <ul style="list-style-type: none">• Enable Numlock—Default |
| Fn Lock Options | Allows you to let hot key combinations Fn + Esc toggle the primary behavior of F1–F12, between their standard and secondary functions. If you disable this option, you cannot toggle dynamically the primary behavior of these keys. <ul style="list-style-type: none">• Fn Lock—Default Click one of the following options: <ul style="list-style-type: none">• Lock Mode Disable/Standard• Lock Mode Enable/Secondary—Default |
| Fastboot | Allows you to speed up the boot process by bypassing some of the compatibility steps. Click one of the following options: <ul style="list-style-type: none">• Minimal• Thorough—Default• Auto |
| Extended BIOS POST Time | Allows you to create an additional preboot delay. Click one of the following options: |

При обращении используйте промокод AND-PDF и получите скидку.

| Option | Description |
|--------------------------------|---|
| | <ul style="list-style-type: none">• 0 seconds—Default• 5 seconds• 10 seconds |
| Full Screen Logo | Allows you to display full screen logo, if your image matches screen resolution. <ul style="list-style-type: none">• Enable Full Screen Logo This option is not set by default. |
| Sign of Life Indication | Allows the system to indicate during POST that the power button press has been acknowledged by turning on the keyboard backlight. |
| Warnings and Errors | Allows you to select different options to either stop, prompt and wait for user input, continue when warnings are detected but pause on errors, or continue when either warnings or errors are detected during the POST process. Click one of the following options: <ul style="list-style-type: none">• Prompt on Warnings and Errors—Default• Continue on Warnings• Continue on Warnings and Errors |

Virtualization support

Table 33. Virtualization Support

| Option | Description |
|--------------------------|--|
| Virtualization | This option specifies whether a Virtual Machine Monitor (VMM) can utilize the additional hardware capabilities provided by the Intel Virtualization technology. <ul style="list-style-type: none">• Enable Intel Virtualization Technology This option is set by default. |
| VT for Direct I/O | Enables or disables the Virtual Machine Monitor (VMM) from utilizing the additional hardware capabilities provided by the Intel Virtualization technology for direct I/O. <ul style="list-style-type: none">• Enable VT for Direct I/O This option is set by default. |

Wireless options

Table 34. Wireless


| Option | Description |
|------------------------|---|
| Wireless Switch | Allows to set the wireless devices that can be controlled by the wireless switch. The options are: <ul style="list-style-type: none">• WWAN• GPS (on WWAN Module)• WLAN |

При обращении используйте промокод AND-PDF и получите скидку.

| Option | Description |
|-------------------------------|---|
| | <ul style="list-style-type: none">• Bluetooth <p>All the options are enabled by default.</p> |
| Wireless Device Enable | <p>Allows you to enable or disable the internal wireless devices.</p> <p>The options are:</p> <ul style="list-style-type: none">• WWAN/GPS• WLAN• Bluetooth <p>All the options are enabled by default.</p> |

Maintenance

Table 35. Maintenance

| Option | Description |
|-----------------------|---|
| Service Tag | Displays the service tag of your computer. |
| Asset Tag | <p>Allows you to create a system asset tag if an asset tag is not already set.</p> <p>This option is not set by default.</p> |
| BIOS Downgrade | <p>Allows you to flash previous revisions of the system firmware.</p> <ul style="list-style-type: none">• Allow BIOS Downgrade <p>This option is set by default.</p> |
| Data Wipe | <p>Allows you to securely erase data from all internal storage devices.</p> <ul style="list-style-type: none">• Wipe on Next Boot <p>This option is not set by default.</p> |
| Bios Recovery | <p>BIOS Recovery from Hard Drive—This option is set by default. Allows you to recover the corrupted BIOS from a recovery file on the HDD or an external USB key.</p> <p>BIOS Auto-Recovery— Allows you to recover the BIOS automatically.</p> <p> NOTE: BIOS Recovery from Hard Drive field should be enabled.</p> <p>Always Perform Integrity Check—Performs integrity check on every boot.</p> |

System logs

Table 36. System Logs

| Option | Description |
|-----------------------|---|
| BIOS events | Allows you to view and clear the System Setup (BIOS) POST events. |
| Thermal Events | Allows you to view and clear the System Setup (Thermal) events. |

При обращении используйте промокод AND-PDF и получите скидку.

| Option | Description |
|---------------------|---|
| Power Events | Allows you to view and clear the System Setup (Power) events. |

Software

This chapter details the supported operating systems along with instructions on how to install the drivers.

Topics:

- [Operating system](#)
- [Downloading drivers](#)
- [Network adapter drivers](#)
- [Audio drivers](#)
- [Display adapter](#)
- [Security drivers](#)
- [Storage controller](#)
- [System device drivers](#)
- [Other device drivers](#)
- [Identifying Windows 10 OS version](#)

Operating system

Table 37. Operating system

Operating systems supported

- Windows 10 Home (64 bit)
- Windows 10 Professional (64 bit)
- Windows 10 Pro for Workstations (64 bit)
- Ubuntu 16.04 LTS (64bit)
- Red Hat Linux Enterprise 7.5

Downloading drivers

- 1 Turn on the notebook.
- 2 Go to **Dell.com/support**.
- 3 Click **Product Support**, enter the Service Tag of your notebook, and then click **Submit**.

 **NOTE: If you do not have the Service Tag, use the auto detect feature or manually browse for your notebook model.**

- 4 Click **Drivers and Downloads**.
- 5 Select the operating system installed on your notebook.
- 6 Scroll down the page and select the driver to install.
- 7 Click **Download File** to download the driver for your notebook.
- 8 After the download is complete, navigate to the folder where you saved the driver file.
- 9 Double-click the driver file icon and follow the instructions on the screen.

Network adapter drivers

Verify if the Network adapter drivers are already installed in the system.

При обращении используйте промокод AND-PDF и получите скидку.

- Network adapters
 - Bluetooth Device (Personal Area Network)
 - Bluetooth Device (RFCOMM Protocol TDI)
 - Intel(R) Ethernet Connection (7) I219-LM
 - Qualcomm QCA61x4A 802.11ac Wireless Adapter

Audio drivers

Verify if the audio drivers are already installed in the computer.

- Audio inputs and outputs
 - Microphone Array (Realtek Audio)
 - Speakers / Headphones (Realtek Audio)
- Sound, video and game controllers
 - Intel(R) Display Audio
 - Realtek Audio

Display adapter

Verify if the display adapter drivers are already installed in the system.

- Display adapters
 - Intel(R) UHD Graphics 630

Security drivers

Verify if the security drivers are already installed in the system.

- Security devices
 - Trusted Platform Module 2.0

Storage controller

Verify if the storage control drivers are already installed in the system.

- Storage controllers
 - Intel(R) Chipset SATA/PCIe RST Premium Controller
 - Microsoft Storage Spaces Controller

System device drivers

Verify if the system device drivers are already installed in the system.

При обращении используйте промокод AND-PDF и получите скидку.

System devices

- 8th Gen Intel(R) Core(TM) Host Bridge/DRAM Registers - 3E10
- ACPI Fixed Feature Button
- ACPI Lid
- ACPI Power Button
- ACPI Processor Aggregator
- ACPI Sleep Button
- ACPI Thermal Zone
- CannonLake LPC Controller (CM246) - A30E
- CannonLake PCI Express Root Port #1 - A338
- CannonLake PCI Express Root Port #6 - A33D
- CannonLake PCI Express Root Port #7 - A33E
- CannonLake SMBus - A323
- CannonLake SPI (flash) Controller - A324
- CannonLake Thermal Subsystem - A379
- Charge Arbitration Driver
- Composite Bus Enumerator
- Dell Diag Control Device
- Dell System Analyzer Control Device
- DPO Control Device
- High Definition Audio Controller
- High precision event timer
- Intel(R) Dynamic Platform and Thermal Framework Generic Participant
- Intel(R) Dynamic Platform and Thermal Framework Generic Participant
- Intel(R) Dynamic Platform and Thermal Framework Generic Participant
- Intel(R) Dynamic Platform and Thermal Framework Generic Participant
- Intel(R) Dynamic Platform and Thermal Framework Manager
- Intel(R) Dynamic Platform and Thermal Framework Processor Participant
- Intel(R) Management Engine Interface
- Intel(R) Power Engine Plug-in
- Intel(R) Serial IO GPIO Host Controller - INT3450
- Intel(R) Serial IO I2C Host Controller - A368
- Intel(R) Serial IO I2C Host Controller - A369
- Intel(R) Xeon(R) E3 - 1200/1500 v5/6th Gen Intel(R) Core(TM) Gaussian Mixture Model - 1911
- Microsoft ACPI-Compliant Embedded Controller
- Microsoft ACPI-Compliant System
- Microsoft System Management BIOS Driver
- Microsoft UEFI-Compliant System
- Microsoft Virtual Drive Enumerator
- Microsoft Windows Management Interface for ACPI
- Microsoft Windows Management Interface for ACPI
- Microsoft Windows Management Interface for ACPI

- Microsoft Windows Management Interface for ACPI
- NDIS Virtual Network Adapter Enumerator
- NFC USB Bus Driver
- Numeric data processor
- PCI Express Root Complex
- PCI standard RAM Controller
- Plug and Play Software Device Enumerator
- Programmable interrupt controller
- Remote Desktop Device Redirector Bus
- STMicroelectronics 3-Axis Digital Accelerometer
- System CMOS/real time clock
- System timer

При обращении используйте промокод AND-PDF и получите скидку.

Other device drivers

Verify if the following drivers are already installed in the system.

Control Vault Device

- ControlVault Device
 - Dell ControlVault w/ Fingerprint Touch Sensor

Universal Serial Bus Controller

- Universal Serial Bus controllers
 - Intel(R) USB 3.1 eXtensible Host Controller - 1.10 (Microsoft)
 - UCSI USB Connector Manager
 - USB Composite Device
 - USB Composite Device
 - USB Root Hub (USB 3.0)

Software components

- Software devices
 - Microsoft Device Association Root Enumerator
 - Microsoft GS Wavetable Synth

Smart card reader

- Smart card readers
 - Microsoft Usbccid Smartcard Reader (WUDF)
 - Microsoft Usbccid Smartcard Reader (WUDF)

Mice and other pointing devices

- Mice and other pointing devices
 - HID-compliant mouse

Memory technology devices

- Memory technology devices
 - Realtek PCIE CardReader

Firmware

- Firmware
 - System Firmware

При обращении используйте промокод AND-PDF и получите скидку.

Identifying Windows 10 OS version

Run dialog box with the Windows Key + R keyboard shortcut. Once that box shows up, enter winver (it stands for Windows version).

Table 38. Identifying Windows 10 OS version

| OS Version | Code name | Version | Latest build |
|------------|-------------|---------|--------------|
| Windows 10 | Threshold 1 | 1507 | 10240 |
| Windows 10 | Threshold 2 | 1511 | 10586 |
| Windows 10 | Redstone 1 | 1607 | 14393 |
| Windows 10 | Redstone 2 | 1703 | 15063 |
| Windows 10 | Redstone 3 | 1709 | 16299 |
| Windows 10 | Redstone 4 | 1803 | 17134 |

Getting help

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.