

Lenovo P16v i Gen 2

Version: 1.0 | 05/21/2024

Product Name	P16v i Gen 2
Product Display Name	P16v i Gen 2
Information Date	23-Apr-24

SECTION I: SYSTEM OVERVIEW

Description	Built for power users who require the flexibility of working anywhere at anytime, the Lenovo ThinkPad P16v i Gen 2 closes the gap in price and performance between entry-level and high-end workstations and offers the power you need to handle large workflows and multitask with ease.
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CPU

Processor Support	Intel Core Ultra Meteor Lake H Series (45W) Core 7 and 9
Socket Type	BGA

Operating Systems

Preloaded	Windows 11 Pro 64-bit (23H2) Windows 11 Home 64-bit (23H2) Windows 11 Home Single Language 64-bit (23H2) Windows 11 Home Chinese Language (PRC only) 64-bit (23H2) Ubuntu Linux 64-bit (Version 22.04 LTS) No Operating System
Supported	Ubuntu Linux 22.04 Cert Red Hat Enterprise Linux (RHEL) 9.4

Memory

Number of DIMM Slots	Up to 2 SoDIMM sockets
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Channels	Single Channel w/ 1DIMM Dual Channel w/ 2DIMMs
Type	DDR5 SoDIMM
ECC Support	No
Speed	Up to 5600MHz
Max DIMM Size	48GB
Max System Memory	96GB
Min System Memory	8GB
Soldered Memory	None
Disclaimers	No ECC memory on P16v i Gen 2

Storage

Storage Slots	2 x M.2 2280
SATA	No
PCIe	Solid State Drive, OPAL2 PCIe-NVMe M.2 2280S3 – TLC
SAS	No
Interface	PCIe
Security	OPAL
Optional Hard Disk Drive Controllers	No
Disclaimers	Dual slot storage is available with all CPU & GPU options

Video

Integrated Graphics	Processor Graphics Intel® Arc Graphics Utilized via "Hybrid Mode" in BIOS
Discrete Graphics	NV RTX 500 Ada, 1000 Ada, 2000 Ada, 3000 Ada
Adapter	None
Bus Interface	PCI Express 4.0

Display

Resolutions	WUXGA (FHD+) / WQUXGA (UHD+)
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Camera

Resolution	FHD 1080p or 5MP+IR Camera
Frames per Second	30 fps

Focus	Fixed 50cm
Camera Interface	USB 2.0
IR Camera	Yes

Keyboard

Number of Keys	US : 105 / UK : 106 / JP : 110
Numpad	Yes
Size	100% ISO
Function Key Features	Yes
Backlit	Yes
Keyboard size	CS23 KYB with numberpad
Key stroke	1.5mm
Key pitch	19.05mm
Keyboard backlight	Yes
Keyboard thickness	Standard

TrackPad / Fingerprint Reader

TrackPoint Details	CS22 TL TrackPoint (t=4.8mm)
Finger Print Reader Model	9.45*3.29 FPR, MoC with LED
Multi-Touch	Yes
Resolution	1000 ppi
TrackPad/TouchPad thickness	3.4mm
TrackPad/TouchPad type	TrackPad
TrackPad size	115mm x 67.6mm
TrackPad material/finish	Glass like mylar surface

I/O – Ports and Connectors

USB	1x USB-A (5Gbps)
Thunderbolt	2x USB-C® (Thunderbolt™ 4)
HDMI	1x HDMI 2.1
Audio Combo Jack	1x Microphone & Headphone Combo Jack (3.5mm)
Media Card Reader	Dedicated SD Express 7.0 Card Reader (Backwards compatible with UHS-I & UHS-II) (MMC,SD,SDHC SDXC)
Smart Card Reader	Yes (optional)
Power Connector	DC-In

Docking Port	Docking Via USB-C® (Thunderbolt™ 4)
VirtualLink	None
Network adapter	Full size RJ-45 port
Disclaimers	HDMI 2.1: Up to 8K/60Hz

Power Connector

Main	DC-In
USB-C	1x USB-C® (Thunderbolt™ 4)

Ethernet

Vendor	Intel
Count	1
EEPROM	No
Speeds	1G
Functions	Ethernet Connection I219
Connectors	Full size RJ-45 port

WWAN

Model	4G: Quectel EM160R-GL w/ QC X24 4G LTE CAT16 5G: Quectel RM520N-GL w/ QC SDX62 sub-6GHz
Disclaimers	WWAN support country dependent

Near Field Communications

Model	Foxconn NXP NPC300 NFC
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Audio

Vendor	Realtek
Type	Intel High Definition Audio
Internal Speaker	2 channel
Connectors	Microphone & Headphone Combo Jack (3.5mm)
Chipset	ALC3287
Number of Channels	4-channel DAC, 4-channel ADC
Number of Bits/Audio Resolution	16/20/24-bit PCM format

Sampling Rate (Recording/Playback)	44.1K/48K/96K/192KHz sample rate
Signal to Noise Ratio	Mic In: 90dB FSA Headphone Out@32ohm: 97dB FSA
Analog Audio	None
Dolby Digital	Dolby Audio Premium SW Support
Digital Out (S/PDIF)	No
Speaker Power Rating	2W@4ohm/ch

Power adapter

Type	Slim 135W AC Adapter	Slim 170W AC Adapter
Dimensions	(126 x 77 x 22mm)	(150 x 77 x 22mm)
Weight	Max 370g	Max 385g
Input Voltage	100-240V	100-240V

Security

TPM	Version 2.0
Asset ID	Yes
vPro	Intel vPro for WS

Chassis Information

Format	Clamshell
Color	Black
Thermal Solutions	Internal Dual FAN, Intelligent Cooling
Dimensions	Length 14.37 inches 365.00 millimeters Width 10.32 inches 262.00 millimeters Height 0.97 inches 24.66 millimeters
Weight	4.90lbs/2.22kg

Packaging Parameters

Height (mm)	26.5, MKT : 24.66
Height (inch)	1.04, MKT : 0.97
Width (mm)	356

Width (inch)	14.02
Depth (mm)	261.92
Depth (inch)	10.32
Weight (kgs)	start from 2.26 kg
Weight (lbs)	start from 4.99 lbs

Security & Serviceability

Hardware Maintenance Manual	P16v Gen 2 HMM	must add link
Drivers & Software	P16v Gen 2 Drivers & Software	must add link
Self Healing BIOS	Yes	
Access Panel	Removeable bottom cover	
Number of Screws	9	
Swappable Components	Bottom cover, memory module, M.2 solid-state drive, speaker assembly, coin-cell battery, TrackPoint pointing cap	
Storage Slots	2 slots	
Memory	2 SoDIMM slots	
System Board	FR4	
Restore CD/DVD/USB Set	None, Restore Media available via Lenovo Customer Support Center	
Cable Lock Support	Security-lock slot, Optional Kensington Cable Lock	
Power-On Password	Yes	
Hard Disk Password	Yes; User and Master hard disk password	
Supervisor Password	Yes	
NIC LEDs (integrated)	Yes	
Security Chip	Yes (for TMP 2.0)	
Access Panel Key Lock	Bottom Cover Tamper Detection	
Boot Sequence Control	Yes	

Operating Environment

Operating – Air Temperature	At altitudes up to 2438 m (8000 ft) – Operating: 5°C to 35°C (41°F to 95°F)
Non Operating – Air Temperature	At altitudes up to 2438 m (8000 ft) – Storage: 5°C to 43°C (41°F to 109°F)
Humidity	Operating: 8% to 95% at wet-bulb temperature 23°C (73°F) Storage: 5% to 95% at wet-bulb temperature 27°C (81°F)
Corrosive Gas	G1
Particulates	P1

SECTION II: SUPPORTED COMPONENTS

Supported Components

Processor	Intel® Core™ Ultra 7 155H processor (E-cores up to 3.8 GHz P-cores up to 4.8 GHz) Intel® Core™ Ultra 7 165H processor (E-cores up to 3.8 GHz P-cores up to 5.0 GHz) Intel® Core™ Ultra 9 185H processor (E-cores up to 3.8 GHz P-cores up to 5.1 GHz)
Memory Support	DDR5 5600MHz SoDIMM
Chipset (PCH)	None
Size of BIOS Flash	64MB
Super I/O	None
Clock	Crystal
Audio	Realtek High Definition Audio
Ethernet	Full size RJ-45 port

Memory

System Capacity Options	8GB 16GB (16GB*1 or 8GB*2) 32GB (32GB*1 or 16GB*2) 48GB 96GB (48GB*2)
Memory Types	8GB DDR5 5600MHz SoDIMM 16GB DDR5 5600MHz SoDIMM 32GB DDR5 5600MHz SoDIMM 48GB DDR5 5600MHz SoDIMM
Brand of Memory	Samsung SK Hynix Micron Ramaxel
Memory clock frequency(MHz)	Up to 5600MHz
Disclaimers	No ECC memory on P16v i Gen 2

Storage

2.5" SAS Hard Disk Drive (HDD)	None
2.5" SATA Hard Disk Drive (HDD)	None
2.5" SATA Solid State Drive (SSD)	None
M.2 (NGFF) PCIe Solid State Drive (SSD)	256GB OPAL2 PCIe 4x4 Value TLC (M.2 2280-S3) 512GB OPAL2 PCIe 4x4 Value TLC (M.2 2280-S3) 1TB OPAL2 PCIe 4x4 Value TLC (M.2 2280-S3)

	512GB OPAL2 PCIe 4x4 Performance TLC (M.2 2280-S3) 1TB OPAL2 PCIe 4x4 Performance TLC (M.2 2280-S3) 2TB OPAL2 PCIe 4x4 Performance TLC (M.2 2280-S3)
2.5" PCIe Solid State Drive (SSD)	None
Brand of Drive	Samsung Micron Hynix Kioxia Union Memory
Intel Optane Storage Technology	None
RAID	Optional, Selectable in BIOS
RAID Level and Requirements	RAID-0/1

Removeable Media

Media Card Reader Specifications	SD Express 7.0 UHS-II
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SECTION III: Supported Component Detail

CPU	Intel® Core™ Ultra 7 155H processor (E-cores up to 3.8 GHz P-cores up to 4.8 GHz)	Intel® Core™ Ultra 7 165H processor (E-cores up to 3.8 GHz P-cores up to 5.0 GHz)	Intel® Core™ Ultra 9 185H processor (E-cores up to 3.8 GHz P-cores up to 5.1 GHz)
Integrated Graphics	Intel® Arc Graphics	Intel® Arc Graphics	Intel® Arc Graphics
# of Cores	6 P-cores and 8 E-cores	6 P-cores and 8 E-cores	6 P-cores and 8 E-cores
# of Threads	22	22	22
Processor Base Frequency	P-cores up to 1.4 GHz / E-cores up to 900 MHz	P-cores up to 1.4 GHz / E-cores up to 900 MHz	P-cores up to 2.3 GHz / E-cores up to 1.8 GHz
Max Turbo Frequency	E-cores up to 3.8 GHz / P-cores up to 4.8 GHz	E-cores up to 3.8 GHz / P-cores up to 5.0 GHz	E-cores up to 3.8 GHz / P-cores up to 5.1 GHz
Cache	24 MB	24 MB	24 MB
TDP	45 W	45 W	45 W

Display Specifications

Model	WUXGA Non-Touch	WUXGA On-Cell Touch	WUXGA Non-Touch	WQUXGA Non-Touch
Resolution	FHD+ (1920 x 1200)	FHD+ (1920 x 1200)	FHD+ (1920 x 1200)	UHD+ (3840 x 2400)
Diagonal	16"	16"	16"	16"

Aspect Ratio	Ratio 16:10	Ratio 16:10	Ratio 16:10	Ratio 16:10
Backlight	LED	LED	LED	LED
PPI	141.5 (Pixel Pitch:0.17952mm x 0.17952mm)	141.5 (Pixel Pitch:0.17952mm x 0.17952mm)	141.5 (Pixel Pitch:0.17952mm x 0.17952mm)	283 (Pixel Pitch: 0.09mm x 0.09mm)
Active Area	344.68 x 215.42	344.68 x 215.42	344.68 x 215.42	344.678 x 215.424
Refresh Rate	60Hz	60Hz	60 Hz	60Hz
Contrast Ratio	800:1 (TYP)	800:1 (TYP)	1200:1 (TYP)	1400:1 (TYP)
Viewing Angle (*1)	85/85/85/85 degree	85/85/85/85 degree	85/85/85/85 degree	85/85/85/85 degree
Color gamut	45% NTSC	45% NTSC	100% sRGB	100% DCI-P3
Brightness	300nit	300nit	400nit	800nit, HDR 400
Color Depth	16.7M	16.7M	16.7M	1064M
Interface	eDP 1.2	eDP 1.2	eDP 1.4	eDP 1.4
Panel ID Recognition	EDID in BIOS Table	EDID in BIOS Table	EDID in BIOS Table	EDID in BIOS Table
Weight	max 410g	Max 410g	max 325g	max 330g
Color Calibrator	None	None	None	X-Rite Factory Color Calibration
Panel Technology	IPS, Anti-Glare	IPS, Anti-Glare	IPS, Anti-Glare	IPS, Anti-Glare
Touch Panel	None	Yes	None	None

SSD Specifications

2.5" SATA Solid State Drive (SSD)	N/A
M.2 (NGFF) PCIe Solid State Drive (SSD)	2x M.2 2280 PCIe
2.5" PCIe Solid State Drive (SSD)	N/A
Intel Optane Storage Technology	N/A

Solid State Storage Devices

Supported Types	M.2	M.2
Dimensions inches/centimeters (W x D x H)	22.0 (+-0.15) x 80.0 (+-0.15) x 2.3 (max)	22.0 (+-0.15) x 80.0 (+-0.15) x 2.3 (max)
Size	M.2 2280 S3	M.2 2280-S3
Interface Type	PCIe NVMe	PCIe NVMe

Read/Write IOPS Specifications	Read: 600K (2TB, 1TB),450K(512GB), 250K (256GB) Write: 500K (2TB, 1TB,512GB), 400K (256GB) IOPS, 4K Random, 8 threads, queue depth of 32, data set size of 1GB.	Read: 700K (2TB), 600K(1TB),350K(512GB), Write: 600K (2TB, 1TB,512GB) IOPS, 4K Random, 8 threads, queue depth of 32, data set size of 1GB.
Bandwidth Performance	PCIe Gen4x4 Value	PCIe Gen4x4 Performance
Power Consumption (Max)	3.0A (duration for 10 us)	3.0A (duration for 10 us)
Active(AVG)	5W	8W
Idle	5mW (L1.2)	5mW (L1.2)
Min MTBF	2,000,000 (h)	2,000,000 (h)
Min Sequential Read	5000MB/s (2TB/1TB),4800MB/s (512GB),4000MB/s (256GB)	6400MB/s (2TB/1TB/512GB)
Min Sequential Write	4500MB/s (2TB), 4000MB/s (1TB/512GB), 2000MB/s (256GB)	5000MB/s (2TB), 4400MB/s (1TB), 4000MB/s (512GB),
Hardware Encryption	Yes	Yes

Discrete Graphics Adapter

Laptop GPUs	NVIDIA RTX 500 Ada Laptop GPU	NVIDIA RTX 1000 Ada Laptop GPU	NVIDIA RTX 2000 Ada Laptop GPU	NVIDIA RTX 3000 Ada Laptop GPU
NVIDIA CUDA Processing Cores	2048	2560	3072	4608
NVIDIA RT Cores	16 (3rd Gen)	20 (3rd Gen)	24 (3rd Gen)	36 (3rd Gen)
Tensor Cores	64 (4th Gen)	80 (4th Gen)	96 (4th Gen)	144 (4th Gen)
GPU Memory	4GB	6GB	8GB	8GB
Peak Memory Bandwidth	128 GB/s	192 GB/s	256 GB/s	256 GB/s
Memory Type	GDDR6	GDDR6	GDDR6	GDDR6
Memory Interface	64-bit	96-bit	128-bit	128-bit
DisplayPort	1.4a	1.4a	1.4a	1.4a
Open GL	4.6	4.6	4.6	4.6
Shader Model	7	7	7	7
DirectX	12 Ultimate	12 Ultimate	12 Ultimate	12 Ultimate
PCIe Generation	4	4	4	4
Single Precision Floating-Point Performance	9.2	12.1	14.5	19.9
Tensor Performance	147.4	193	231.6	318.6
NVIDIA FXAA/TXAA Anti-Aliasing	Yes	Yes	Yes	Yes
NVIDIA RTX Desktop Manager	No	No	No	No
Vulkan Support	Yes	Yes	Yes	Yes
NVIDIA Optimus	Yes	Yes	Yes	Yes

NVIDIA Max-Q Technology	Yes	Yes	Yes	Yes
NVENC/NVDEC	Yes	Yes	Yes	Yes

WLAN

Model	Garfield Peak 2 Intel Wi-Fi 6E AX211 (Gig+) + BT5.3 (HW Ready)
Connector: Main, Aux/GNSS, GNSS	ANT1:AUX WiFi + BT; ANT2: Main WiFi
Antenna Diversity	Supported
MIMO	Supported
GNSS Bian	N/A
Radio ON/OFF Control	Supported
Connector interface	CNVi
Operating Temperature (Adapter Shield)	0c to +80c
Humidity Non-Operating	50%~90% Rh non condensing (at temperatures of 25c to 35c)
Operating Systems	Windows 11, 64-bit*, Microsoft Windows 10*, Linux*(limited feature support), Chrome*
Wi-Fi Alliance	Wi-Fi CERTIFIED* a/b/g/n/ac/ax with wave 2 features, WMM*, WMM-PS*, WPA*, WPA2*, WPS2*, Protected Management Frames, Wi-Fi Miracast* as Source, and Wi-Fi Direct (For Microsoft Windows* only)
IEEE WLAN Standard	IEEE 802.11a/b/g/n/ac/ax, 802.11d, 802.11e, 802.11h, 802.11i, 802.11w, 802.11r, 802.11k, 802.11v, pending OS support; Fine Timing Measurement based on 802.11-2016
Roaming	Support seamless roaming between access points
Bluetooth*	Bluetooth 5.3 (HW Ready)
Authentication	WPA and WPA2, 802.1X (EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA, EAP-AKA
Authentication Protocols	PAP, CHAP, TLS, MS-CHAP*, MS-CHAPv2
Encryption	64-bit and 128-bit WEP, 128-bit AES-CCMP
Regulatory	For a list of country approvals, please contact your local Intel representatives.
US Government	FIPS, FISMA
Product Safety	UL,C-UL,CB (IEC 60950-1)
Disclaimers	1) 6GHz channel of Wi-Fi 6E is only available with Windows 11 2) Bluetooth may be limited by OS

Battery

Dimension	L: 312mm*W: 58.8mm*T 9.4mm
Weight	MAX 349.75g
Type (Chemistry and Cell)	Li-Polymer (4S1P), 4-cell
Voltage	15.52 V

Battery Capacity	90Wh
Charging Time	On Charge Time (0- 100%) * 117 min Off Charge Time (0 – 80%) ** 56 min Off Charge Time (0 – 100%) ** 115 min
Operating Temperature Range	between 10°C (50°F) and 35°C (95°F)
Warranty	1 Year / 3 Year Available
Coin Cell Battery (Model)	CR2032

SECTION IV: BIOS / Certifications / Standards / Environmental

BIOS Specifications

WMI Support	Yes, if it is BIOS Setup change by WMI.
ROM-Based Setup Utility (F1)	Yes
Replicated Setup	Yes, it supported with SRSETUP tool.
Boot Control	Yes, it means Boot order change.
Discrete Mode	No
Memory Change Alert	N/A
Thermal Alert	N/A
Asset Tag	Yes
System/Emergency ROM Flash Recovery with Video	N/A
Remote Wakeup/Remote Shutdown	Only support WOL when system is connected with Dock.
Keyboard-less Operation	N/A
Per-port Control	Yes, if it is I/O port enable/disable by BIOS Setup.
Adaptive Cooling	Yes, if it is thermal & fan control.
Security	Yes, BIOS password / Hard disk password / Finger print
Intel(R) AMT (includes ASF 2.0)	Yes. If you select vPro model
Intel(R) TXT	Yes. If you select vPro model
Memory Modes	N/A

EMC & Safety

EMC	Published, Certified Existing Reports EMC – Australia EMC – Belarus EMC – Canada EMC – China EMC – EU/EFTA
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	<p>EMC – Japan EMC – Kazakhstan EMC – New Zealand EMC – Russia EMC – South Korea EMC – Taiwan EMC – USA/Territories Not Applicable / Not Required EMC – Israel EMC – Moldova EMC – Serbia EMC – Turkey EMC – Uzbekistan EMC – Vietnam</p>
Safety	<p>To access the latest User Guide and Safety and Warranty Guide, go to: https://support.lenovo.com Low Halogen Declaration of Conformance TNOT-2017-0040 Section 9 – Low Halogen Scorecard Homologation PCRB Compliant In the following countries: Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Azerbaijan, Bahamas, Bahrain, Bangladesh, Barbados, Belarus, Belize, Benin, Bermuda, Bolivia, Botswana, Burkina Faso, Burundi, Cambodia, Cameroon, Canada, Cape Verde, Cayman Islands, Central African Republic, Chad, China, Colombia, Comoros, Congo, Costa Rica, Djibouti, Dominican Republic, Egypt, El Salvador, Eritrea, Ethiopia, EU/EFTA, Fiji, Gabon, Gambia, Georgia, Ghana, Grenada, Guatemala, Guinea, Haiti, Honduras, Hong Kong, India, Indonesia, Israel, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, Laos, Lebanon, Liberia, Macau, Madagascar, Malawi, Malaysia, Mali, Mauritania, Mauritius, Mexico, Moldova, Mongolia, Morocco, Mozambique, Namibia, Nepal, New Zealand, Nicaragua, Niger, Nigeria, Oman, Pakistan, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Qatar, Russia, Saudi Arabia, Senegal, Serbia, Seychelles, Sierra Leone, Singapore, South Africa, South Korea, Sri Lanka, Swaziland, Taiwan, Tajikistan, Tanzania, Thailand, Togo, Tunisia, Turkey, Turkmenistan, Uganda, Ukraine, United Arab Emirates, Uruguay, USA/Territories, Uzbekistan, Venezuela, Vietnam, Zambia, Zimbabwe, Brazil – Inmetro 170 Govt Bids, Guinea-Bissau, Lesotho</p>

Environmentals

Energy Star	<p>ENERGY STAR® Version 8.0 For more information about ENERGY STAR, go to: https://www.energystar.gov</p>
EPEAT	<p>EPEAT Silver Certification Available on select models</p>
IT ECO declaration	<p>The latest environmental information about Lenovo products is available at: https://www.lenovo.com/ecodeclaration</p>
Hazardous Substances	<p>The latest environmental information about Lenovo products is available at: https://www.lenovo.com/ecodeclaration European Union RoHS This Lenovo product, with included parts (cables, cords, and so on) meets the requirements of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("RoHS recast" or "RoHS 2"). For more information about Lenovo worldwide compliance on RoHS, go to: https://www.lenovo.com/rohs-communication</p>

Manageability

Industry Standard Specifications	This product meets the following industry standard specifications for manageability functionality:
Remote Manageability Software Solutions	Lenovo ThinkManagement Console Microsoft System Center Configuration Manager LANDesk Management Suite for Lenovo Vantage Technologies (www.landesk.com/lenovo)
System Software Manager	Lenovo ThinkStation supports software management tools from the ThinkVantage System Update suite: System Update Update Retriever
Service, Support, and Warranty	On-site Warranty and Service: Three-years, limited warranty and service offering delivers on-site, next business-day service for parts and labor and includes free telephone support 8am – 5pm. Global coverage ensures that any product purchased in one country and transferred to another, non-restricted country will remain fully covered under the original warranty and service offering.
Materials Used	90% Recycled Magnesium C Cover 85% PCC Plastic Key Caps on Keyboard 90% PCC Plastic Speaker Enclosure 90% PCC Plastic Battery Pack Enclosure 30% PCC Plastic SIM Tray 30% PCC Plastic 135W Slim AC Adapter 30% PCC Plastic 170W Slim AC Adapter Low Temperature Solder (SSD, memory, fingerprint reader module, TrackPad) Plastic free packaging with 90% recycled and/or FSC certified content (standard)
TCO Certification	TCO 9.0
Disclaimers	1. EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. 2. Product packaging shall contain, on average, a minimum total percentage of 90% by weight of any combination of the following materials: Recycled content, biobased plastic, non-wood biobased fiber material, and/or sustainably forested material