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Part Number	CPU	Passmark CPU Score**	Hard Drive GB	RAM GB	OS	Battery Life up to	Weight LB	Pg.	Price USD
13077394	Intel Core i5 (7th Gen) 7200U / 2.5 GHz / 3 MB Cache	4617	500	4	Win10 Pro	13 HR	5.4	2	$ 689.00
13077403	Intel Core i5 (7th Gen) 7200U / 2.5 GHz / 3 MB Cache	4617	256 SSD	8	Win10 Pro	13 HR	4.63	5	$ 819.00
13077405	Intel Core i5 (6th Gen) 8250U / 1.6 GHz (3.4 GHz) / 6 MB Cache	7670	256 SSD	8	Win10 Pro	13 HR	4.63	8	$ 909.00
11939094	Intel Core i7 (8th Gen) 8550U / 1.8 GHz (4 GHz) / 8 MB Cache	8327	1,000 / 1Tb	12	Win10 Home	5.5 HR	4.85	11	$ 799.00

MICROSOFT OFFICE 2016 OPTIONS INCLUDE		
MS OFFICE HOME & STUDENT EDITION 2016: Includes 2016 versions of Word, Excel, PowerPoint and **(for NON Business use)** **$139.99**	**OFFICE 2016 HOME AND BUSINESS PRODUCT KEY CARD (NO MEDIA):** Includes 2016 versions of Word, Excel, PowerPoint, OneNote and Outlook **$219.99**	**OFFICE 2016 PROFESSIONAL PRODUCT KEY CARD (NO MEDIA):** Includes 2016 versions of Word, Excel, PowerPoint, OneNote, Outlook, Publisher and Access. **$399.99**

**Passmark.com does "benchmark testing" to make it easier to compare the power of all the various processors available in the market today. With cryptic, meaningless names and varying operating frequencies as well as the number of processor cores it can be difficult to know which CPU is the best value. We use Passmark's numbers so you can compare the performance of the various processors available in the notebook computers we offer. You can look up your current CPU at http://www.cpubenchmark.net/cpu_list.php to compare your CPU against these new ones. Please note that the numbers Passmark posts have been noted to change slightly over time with additional testing but are still a great way to compare processors.

Lenovo ThinkPad E580 20KS - Core i5 7200U / 2.5 GHz - Win 10 Pro 64-bit - 4 GB RAM - 500 GB HDD - 15.6" 1366 x 768 (HD) - HD Graphics 620 - Wi-Fi, Bluetooth - black

Your Price $689.00

OUR PART #   13077394

PASSMARK SCORE 4617

Product Description	Lenovo ThinkPad E580 - 15.6" - Core i5 7200U - 4 GB RAM - 500 GB HDD
Product Type	Notebook
Operating System	Win 10 Pro 64-bit
Processor	Intel Core i5 (7th Gen) 7200U / 2.5 GHz (3.1 GHz) / 3 MB Cache
Memory	4 GB DDR4 (1 x 4 GB)
Storage	500 GB HDD / 7200 rpm
Optical Drive	No optical drive
Display	15.6" LED backlight 1366 x 768 / HD
Graphics	Intel HD Graphics 620
Input Device	TrackPoint, UltraNav
Numeric Keypad	Yes
Integrated Webcam	Yes
Networking	802.11a/b/g/n/ac, Bluetooth 4.1, Gigabit Ethernet
Battery	3-cell - up to 13 hours
Security	Trusted Platform Module (TPM 2.0) Security Chip, fingerprint reader
Color	Black
Dimensions (WxDxH)	14.5 in x 9.9 in x 0.8 in
Weight	4.63 lbs
Localization	Language: English
Manufacturer Selling Program	TopSeller
Environmental Standards	ENERGY STAR Qualified
Manufacturer Warranty	Limited warranty - 1 year - pick-up and return

Extended Specifications

General

Product Type	Notebook
Operating System	Windows 10 Pro 64-bit Edition

Processor / Chipset

CPU	Intel Core i5 (7th Gen) 7200U / 2.5 GHz
Max Turbo Speed	3.1 GHz
Number of Cores	Dual-Core
Cache	3 MB

64-bit Computing Yes

Features   Integrated memory controller

Memory

RAM   4 GB (1 x 4 GB)

Max RAM Supported 32 GB

Technology   DDR4 SDRAM

Speed   2133 MHz

Form Factor   SO-DIMM 260-pin

Slots Qty   2

Empty Slots   1

Storage

Main Storage 500 GB HDD SATA 6Gb/s / 7200 rpm

Display

Type   15.6"

LCD Backlight Technology LED backlight

Resolution   1366 x 768 (HD)

Widescreen   Yes

Image Aspect Ratio   16:9

Image Brightness   220 cd/m²

Features   Anti-glare

Audio & Video

Graphics Processor   Intel HD Graphics 620

Camera   Yes - 720p

Sound   Stereo speakers, dual array microphone

Codec   CX11852

Compliant Standards High Definition Audio, Dolby Advanced Audio

Input

Type   Keyboard, TrackPoint, UltraNav

Numeric Keypad Yes

Features   Spill-resistant, multi-touch touchpad, buttonless touchpad

Communications

Wireless   802.11a/b/g/n/ac, Bluetooth 4.1

Wireless Controller Realtek RTL8822BE - M.2 Card

Network Interface   Gigabit Ethernet

Ethernet Controller Realtek R8111GUS

Battery

Technology 3-cell lithium ion

Capacity   45 Wh

Run Time   Up to 13 hours

AC Adapter

Input   AC 120/230 V (50/60 Hz)

Output 65 Watt

Connections & Expansion

Interfaces	USB 3.1 Gen 1 ¦ USB 3.1 Gen 1 (Always On) ¦ USB 2.0 ¦ HDMI ¦ LAN ¦ USB-C 3.1 Gen 2 ¦ Headphone/microphone combo jack
Memory Card Reader	Yes (microSD)

Software

Software Included	Lenovo Companion, McAfee LiveSafe (30 days trial), PC Manager

Miscellaneous

Color	Black
Case Material	Aluminum, polycarbonate ABS
Security	Trusted Platform Module (TPM 2.0) Security Chip, fingerprint reader
Features	Administrator password, hard drive password, power-on password, ThinkVantage Active Protection System
Theft/Intrusion Protection	Security lock slot (cable lock sold separately)
Security Slot Type	Kensington security slot
Included Accessories	USB-C power adapter
Compliant Standards	RoHS
Localization	Language: English
Manufacturer Selling Program	TopSeller

Dimensions & Weight

Dimensions (WxDxH)	14.5 in x 9.9 in x 0.8 in
Weight	4.63 lbs

Environmental Standards

ENERGY STAR Certified	Yes

Manufacturer Warranty

Service & Support	Limited warranty - 1 year - pick-up and return

Lenovo ThinkPad E580 20KS - Core i5 7200U / 2.5 GHz - Win 10 Pro 64-bit - 4 GB RAM - 500 GB HDD - 15.6" 1366 x 768 (HD) - HD Graphics 620 - Wi-Fi, Bluetooth - black

OUR PART #   13077403

Your Price $819.00
PASSMARK SCORE 4617

Main Specifications

Product Description	Lenovo ThinkPad E580 - 15.6" - Core i5 7200U - 8 GB RAM - 256 GB SSD
Product Type	Notebook
Operating System	Win 10 Pro 64-bit
Processor	Intel Core i5 (7th Gen) 7200U / 2.5 GHz (3.1 GHz) / 3 MB Cache
Memory	8 GB DDR4 (1 x 8 GB)
Storage	256 GB - M.2 SSD TCG Opal Encryption 2, NVMe
Optical Drive	No optical drive
Display	15.6" LED backlight 1920 x 1080 / Full HD
Graphics	Intel HD Graphics 620
Input Device	TrackPoint, UltraNav
Numeric Keypad	Yes
Integrated Webcam	Yes
Networking	802.11a/b/g/n/ac, Bluetooth 4.1, Gigabit Ethernet
Battery	3-cell - up to 13 hours
Security	Trusted Platform Module (TPM 2.0) Security Chip, fingerprint reader
Color	Black (LCD cover), black (top cover)
Dimensions (WxDxH)	14.5 in x 9.9 in x 0.8 in
Weight	4.63 lbs
Localization	Language: English
Manufacturer Selling Program	TopSeller
Environmental Standards	ENERGY STAR Qualified
Manufacturer Warranty	Limited warranty - 1 year - pick-up and return

Extended Specifications

General
 Product Type   Notebook
 Operating System Windows 10 Pro 64-bit Edition
Processor / Chipset

CPU	Intel Core i5 (7th Gen) 7200U / 2.5 GHz
Max Turbo Speed	3.1 GHz
Number of Cores	Dual-Core
Cache	3 MB
64-bit Computing	Yes
Features	Integrated memory controller

Memory

RAM	8 GB (1 x 8 GB)
Max RAM Supported	32 GB
Technology	DDR4 SDRAM
Speed	2400 MHz - 2400 MHz
Form Factor	SO-DIMM 260-pin
Slots Qty	2
Empty Slots	1

Storage

Main Storage	256 GB SSD - (M.2) PCIe - TCG Opal Encryption 2, NVM Express (NVMe)

Display

Type	15.6" - IPS
LCD Backlight Technology	LED backlight
Resolution	1920 x 1080 (Full HD)
Widescreen	Yes
Image Aspect Ratio	16:9
Image Brightness	250 cd/m²
Features	Anti-glare

Audio & Video

Graphics Processor	Intel HD Graphics 620
Camera	Yes - 720p
Sound	Stereo speakers, dual array microphone
Codec	CX11852
Compliant Standards	High Definition Audio, Dolby Advanced Audio

Input

Type	Keyboard, TrackPoint, UltraNav
Numeric Keypad	Yes
Features	Spill-resistant, multi-touch touchpad, buttonless touchpad

Communications

Wireless	802.11a/b/g/n/ac, Bluetooth 4.1
Wireless Controller	Realtek RTL8822BE - M.2 Card
Network Interface	Gigabit Ethernet
Ethernet Controller	Realtek R8111GUS

Battery

Technology	3-cell lithium ion
Capacity	45 Wh
Run Time	Up to 13 hours

AC Adapter

Input AC 120/230 V (50/60 Hz)

Output 65 Watt

Connections & Expansion

Interfaces	USB 3.1 Gen 1 ¦ USB 3.1 Gen 1 (Always On) ¦ USB 2.0 ¦ HDMI ¦ LAN ¦ USB-C 3.1 Gen 2 ¦ Headphone/microphone combo jack
Memory Card Reader	Yes (microSD)

Software

Software Included Lenovo Companion, McAfee LiveSafe (30 days trial), PC Manager

Miscellaneous

Color	Black (LCD cover), black (top cover)
Case Material	Aluminum, polycarbonate ABS
Security	Trusted Platform Module (TPM 2.0) Security Chip, fingerprint reader
Features	Administrator password, hard drive password, power-on password
Theft/Intrusion Protection	Security lock slot (cable lock sold separately)
Security Slot Type	Kensington security slot
Included Accessories	USB-C power adapter
Compliant Standards	RoHS
Localization	Language: English
Manufacturer Selling Program	TopSeller

Dimensions & Weight

Dimensions (WxDxH) 14.5 in x 9.9 in x 0.8 in

Weight 4.63 lbs

Environmental Standards

ENERGY STAR Certified Yes

Manufacturer Warranty

Service & Support Limited warranty - 1 year - pick-up and return

Lenovo ThinkPad E580 20KS - Core i5 8250U / 1.6 GHz - Win 10 Pro 64-bit - 8 GB RAM - 256 GB SSD TCG Opal Encryption 2, NVMe - 15.6" IPS 1920 x 1080 (Full HD) - UHD Graphics 620 - Wi-Fi, Bluetooth - black (LCD cover), black (top cover)

OUR PART #   13077405

Your Price $909.00
PASSMARK SCORE 7670

Main Specifications

Product Description	Lenovo ThinkPad E580 - 15.6" - Core i5 8250U - 8 GB RAM - 256 GB SSD
Product Type	Notebook
Operating System	Win 10 Pro 64-bit
Processor	Intel Core i5 (8th Gen) 8250U / 1.6 GHz (3.4 GHz) / 6 MB Cache
Memory	8 GB DDR4 (1 x 8 GB)
Storage	256 GB - M.2 SSD TCG Opal Encryption 2, NVMe
Optical Drive	No optical drive
Display	15.6" LED backlight 1920 x 1080 / Full HD
Graphics	Intel UHD Graphics 620
Input Device	TrackPoint, UltraNav
Numeric Keypad	Yes
Integrated Webcam	Yes
Networking	802.11a/b/g/n/ac, Bluetooth 4.1, Gigabit Ethernet
Battery	3-cell - up to 13 hours
Security	Trusted Platform Module (TPM 2.0) Security Chip, fingerprint reader
Color	Black (LCD cover), black (top cover)
Dimensions (WxDxH)	14.5 in x 9.9 in x 0.8 in
Weight	4.63 lbs
Localization	Language: English
Manufacturer Selling Program	TopSeller
Environmental Standards	ENERGY STAR Qualified
Manufacturer Warranty	Limited warranty - 1 year - pick-up and return

Extended Specifications

General

Product Type	Notebook

Operating System Windows 10 Pro 64-bit Edition

Processor / Chipset

CPU	Intel Core i5 (8th Gen) 8250U / 1.6 GHz
Max Turbo Speed	3.4 GHz
Number of Cores	Quad-Core
Cache	6 MB
64-bit Computing	Yes
Features	Integrated memory controller

Memory

RAM	8 GB (1 x 8 GB)
Max RAM Supported	32 GB
Technology	DDR4 SDRAM
Speed	2400 MHz - 2400 MHz
Form Factor	SO-DIMM 260-pin
Slots Qty	2
Empty Slots	1

Storage

Main Storage 256 GB SSD - (M.2) PCIe - TCG Opal Encryption 2, NVM Express (NVMe)

Display

Type	15.6" - IPS
LCD Backlight Technology	LED backlight
Resolution	1920 x 1080 (Full HD)
Widescreen	Yes
Image Aspect Ratio	16:9
Image Brightness	250 cd/m²
Features	Anti-glare

Audio & Video

Graphics Processor	Intel UHD Graphics 620
Camera	Yes - 720p
Sound	Stereo speakers, dual array microphone
Codec	CX11852
Compliant Standards	High Definition Audio, Dolby Advanced Audio

Input

Type	Keyboard, TrackPoint, UltraNav
Numeric Keypad	Yes
Features	Spill-resistant, multi-touch touchpad, buttonless touchpad

Communications

Wireless	802.11a/b/g/n/ac, Bluetooth 4.1
Wireless Controller	Realtek RTL8822BE - M.2 Card
Network Interface	Gigabit Ethernet
Ethernet Controller	Realtek R8111GUS

Battery

Technology	3-cell lithium ion
Capacity	45 Wh

Run Time   Up to 13 hours
AC Adapter
Input   AC 120/230 V (50/60 Hz)
Output 65 Watt
Connections & Expansion

Interfaces	USB 3.1 Gen 1 ¦ USB 3.1 Gen 1 (Always On) ¦ USB 2.0 ¦ HDMI ¦ LAN ¦ USB-C 3.1 Gen 2 ¦ Headphone/microphone combo jack
Memory Card Reader	Yes (microSD)

Software
Software Included Lenovo Companion, McAfee LiveSafe (30 days trial), PC Manager
Miscellaneous

Color	Black (LCD cover), black (top cover)
Case Material	Aluminum, polycarbonate ABS
Security	Trusted Platform Module (TPM 2.0) Security Chip, fingerprint reader
Features	Administrator password, hard drive password, power-on password
Theft/Intrusion Protection	Security lock slot (cable lock sold separately)
Security Slot Type	Kensington security slot
Included Accessories	USB-C power adapter
Compliant Standards	RoHS
Localization	Language: English
Manufacturer Selling Program	TopSeller

Dimensions & Weight
Dimensions (WxDxH) 14.5 in x 9.9 in x 0.8 in
Weight   4.63 lbs
Environmental Standards
ENERGY STAR Certified Yes
Manufacturer Warranty
Service & Support Limited warranty - 1 year - pick-up and return

Lenovo 330-15IKBR 81DE -
Core i7 8550U / 1.8 GHz -
Win 10 Home 64-bit - 12 GB
RAM - 1 TB HDD - DVD-
Writer - 15.6" 1366 x 768
(HD) - UHD Graphics 620 -
Wi-Fi, Bluetooth - platinum
gray

OUR PART#   13331040

Your Price $799.00
PASSMARK SCORE 8327

Main Specifications

Product Description	Lenovo 330-15IKBR - 15.6" - Core i7 8550U - 12 GB RAM - 1 TB HDD
Product Type	Notebook
Operating System	Win 10 Home 64-bit
Processor	Intel Core i7 (8th Gen) 8550U / 1.8 GHz (4 GHz) / 8 MB Cache
Memory	12 GB DDR4 (1 x 8 GB + 4 GB (soldered))
Storage	1 TB HDD
Optical Drive	DVD-Writer
Display	15.6" LED backlight 1366 x 768 / HD
Graphics	Intel UHD Graphics 620
Numeric Keypad	Yes
Integrated Webcam	Yes
Networking	802.11a/b/g/n/ac, Bluetooth 4.1, Gigabit Ethernet
Battery	2-cell - up to 5.5 hours
Security	Firmware Trusted Platform Module (TPM 2.0) Security Chip
Color	Platinum gray
Dimensions (WxDxH)	14.9 in x 10.2 in x 0.9 in
Weight	4.85 lbs
Localization	Language: English
Environmental Standards	ENERGY STAR Qualified

Extended Specifications

General

Product Type	Notebook
Operating System	Windows 10 Home 64-bit Edition

Processor / Chipset

CPU	Intel Core i7 (8th Gen) 8550U / 1.8 GHz
Max Turbo Speed	4 GHz
Number of Cores	Quad-Core
Cache	8 MB
64-bit Computing	Yes
Features	Integrated memory controller

Memory

RAM	12 GB (1 x 8 GB + 4 GB (soldered))
Max RAM Supported	16 GB
Technology	DDR4 SDRAM
Speed	2400 MHz - 2400 MHz
Form Factor	SO-DIMM 260-pin
Slots Qty	1
Empty Slots	0

Storage

Main Storage	1 TB HDD SATA 6Gb/s - Seagate
Optical Drive	DVD-Writer - tray

Display

Type	15.6"
LCD Backlight Technology	LED backlight
Resolution	1366 x 768 (HD)
Widescreen	Yes
Image Aspect Ratio	16:9
Image Brightness	200 cd/m²
Features	Anti-glare

Audio & Video

Graphics Processor	Intel UHD Graphics 620
Camera	Yes
Resolution	0.3 Megapixel
Sound	Stereo speakers, microphone
Compliant Standards	High Definition Audio, Dolby Audio

Input

Type	Keyboard, touchpad
Numeric Keypad	Yes
Features	Multi-touch touchpad

Communications

Wireless	802.11a/b/g/n/ac, Bluetooth 4.1
Wireless Controller	Intel Dual Band Wireless-AC 3165 - M.2 Card

Network Interface Gigabit Ethernet

Battery

Technology 2-cell lithium ion

Capacity   30 Wh

Run Time   Up to 5.5 hours

AC Adapter

Input   AC 120/230 V (50/60 Hz)

Output 45 Watt, 20 V, 2.25 A

Connections & Expansion

Interfaces	2 x USB 3.1 Gen 1/USB 3.0 ¦ USB-C 3.1 Gen 1 ¦ LAN ¦ HDMI ¦ Headphone/microphone combo jack
Memory Card Reader	4 in 1 (SD Card, MultiMediaCard, SDHC Card, SDXC Card)

Miscellaneous

Color	Platinum gray
Case Material	Polycarbonate ABS
Security	Firmware Trusted Platform Module (TPM 2.0) Security Chip
Features	Administrator password, power-on password
Theft/Intrusion Protection	Security lock slot (cable lock sold separately)
Security Slot Type	Kensington security slot
Included Accessories	Power adapter
Compliant Standards	RoHS
Localization	Language: English

Dimensions & Weight

Dimensions (WxDxH) 14.9 in x 10.2 in x 0.9 in

Weight   4.85 lbs

Environmental Standards

ENERGY STAR Certified Yes