

# Raise the bar with the Lenovo ThinkPad.

Lenovo

With a 25-year legacy and over 100 million purchases, the Lenovo ThinkPad has been constantly reinvented to make it tougher, faster, and better.

## ThinkPad

Our approach:

Study consumer  
behavior and  
real-world  
scenarios



Redesign  
components



Innovate  
effortlessly



Engineer  
groundbreaking  
technology

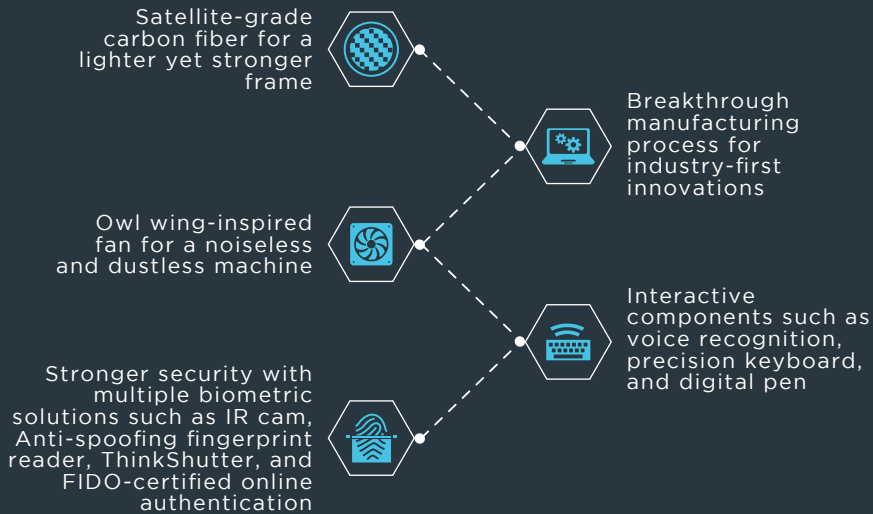


# Invest in performance that's unbeatable.



Here's why the ThinkPad is the best bet, any day!

## ThinkPad



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# Ultralight. Ultra powerful.

Experience the extraordinary with Lenovo

ThinkPad X1 CARBON

Lenovo



Satellite-grade carbon fiber for prolonged durability



Lightweight system for greater portability



4G network for better connectivity



IR cam, Lenovo Glance Eye Tracking, fingerprint reader, and ThinkShutter for enhanced security



HDR display for improved viewability



# Stretch the boundaries of what's possible.

Uncompromise with Lenovo

**ThinkPad** X1YOGA

**Lenovo**<sup>™</sup>



Multi-mode  
capability for  
diverse  
functions



Rise & Fall  
keyboard for  
better user  
experience in  
Tablet mode



IR cam, Lenovo  
Glance Eye  
Tracking,  
fingerprint reader,  
and ThinkShutter  
for enhanced  
security



Lightweight  
system for  
greater  
portability



HDR display for  
an outstanding  
viewing  
experience

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# Tablet, Laptop, or Canvas – it's your pick.

Get the best of both worlds with Lenovo

**ThinkPad** X1 TABLET

**Lenovo**



Multi-mode capability for diverse functions



Lightweight system for greater portability



Corning Gorilla Glass for higher reliability



Precision keyboard for better user experience in Notebook mode



IR cam, Lenovo Glance Eye Tracking, and Anti-spoofing fingerprint reader for enhanced security

# Ultra powerful & ultra flexible.

Never miss a beat with the Lenovo

**ThinkPad** X380 YOGA

**Lenovo**<sup>™</sup>

Multi-mode  
capability for  
diverse functions



Lightweight  
system for greater  
portability



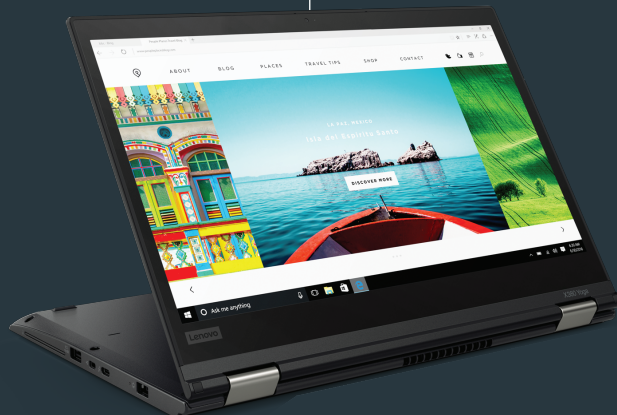
Smart pen for an  
improved  
experience



4G network  
for better  
connectivity



Smart Card  
reader, IR cam,  
Lenovo Glance  
Eye Tracking, and  
fingerprint reader  
for enhanced  
security



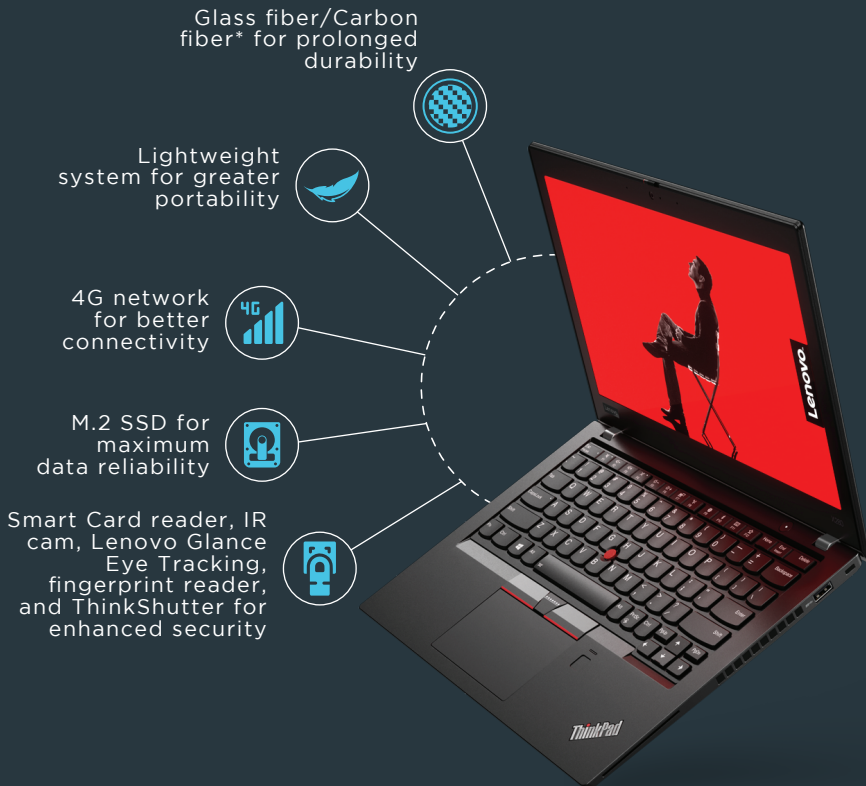
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# Enhanced portability. Exceptional agility.

Stay inspired with Lenovo

**ThinkPad**<sup>X280</sup>

**Lenovo**<sup>®</sup>



\*Only on X280 with touch



## ThinkPad X280

Feature	ThinkPad X280	Latitude 5290	Latitude 7290	EliteBook 830 G5
Display	HD 220 Nits FHD IPS 300 Nits FHD IPS 300 Nits with touch	HD 200 Nits FHD WVA 300 Nits FHD WVA 360 Nits with CG glass and touch	HD 200 Nits FHD 300 Nits FHD 300 Nits with CG glass FHD 300 Nits with CG glass and touch	FHD IPS 220 Nits FHD IPS 400 Nits FHD IPS 220 Nits with touch
Screen size	12.5"	12.5"	12.5"	13.3"
USB Ports	2 x USB 3.1 + 1 x USB Type C + 1 x Thunderbolt	2 x USB 3.1 + 1 x USB Type C	2 x USB 3.1 + 1 x USB Type C (optional Thunderbolt)	2 x USB 3.1 + 1 x Thunderbolt
Security Slot	Standard Kensington	Unique Nobel Wedge Slot	Unique Nobel Wedge Slot	Standard Kensington
Docking	Mechanical side docking + Thunderbolt	USB Type C	USB Type C	USB Type C + docking port
Battery	Integrated 48 Whr rapid charge (80% in 1 hour)	Integrated 42 Whr/51 Whr/68 Whr ExpressCharge, but no details	Integrated 42 Whr/60 Whr ExpressCharge, but no details	Integrated 50 Whr (50% charge in 30 minutes)
MIL-specs	12 MIL-specs/21 procedures	17 MIL-specs/procedures, but no details	17 MIL-specs/procedures, but no details	MIL-STD 810G, but no details
Dimensions	307.7mm x 209.8mm x 17.4mm 1.16kg w/FHD LCD; 1.30kg w/HD LCD	305.15mm x 211.3mm x 19.4mm Starting at 1.36kg	304.8mm x 207.9mm x 16.53mm Starting at 1.19kg	310mm x 229.3 x 17.7mm Starting at 1.33kg
Other Tech	<ul style="list-style-type: none"><li>• ThinkShutter</li><li>• Smart Beep Diagnostics</li><li>• Match on Chip FPR with Anti-spoofing</li></ul>	None mentioned	None mentioned	<ul style="list-style-type: none"><li>• None mentioned</li><li>• Touch FPR available but no mention of Anti-spoofing</li></ul>

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# Built for power. Designed to perform.

Take efficiency to greater heights with Lenovo

**ThinkPad** T480s

**Lenovo**



Quad core/2GB  
GPU/24GB RAM  
for unbeatable  
performance



4G network  
for better  
connectivity



Carbon fiber  
for prolonged  
durability



Smart Card reader,  
IR cam, Lenovo  
Glance Eye Tracking,  
fingerprint reader,  
and ThinkShutter for  
enhanced security



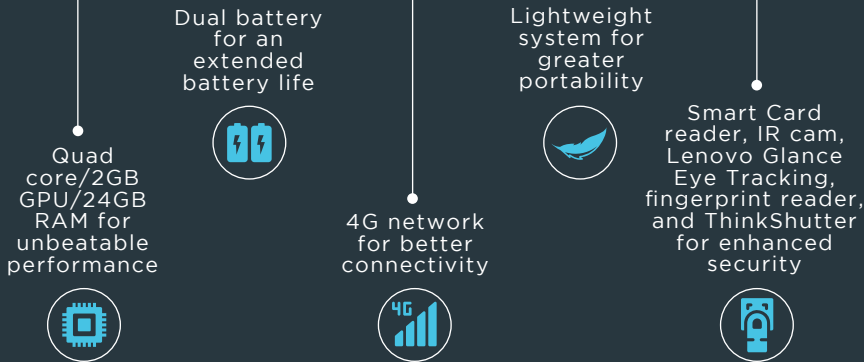
Lightweight  
system for  
greater  
portability

# Power-packed technology. Record-breaking performance.



Stay inspired with Lenovo

**ThinkPad** T480/T580\*



\*T480 and T580 differ only in screen size; T480 being 14 inches and T580 being 15 inches.

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# ThinkPad T480



Feature	ThinkPad T480	Latitude 5490	Latitude 7490	EliteBook 840 G5
Display	HD 220 Nits FHD 250 Nits with IPS WQHD 300 Nits Touch FHD with IPS	HD 200 FHD 220 WVA Touch - FHD WVA	HD 200 Nits FHD 300 Nits FHD 270 Nits with touch QHD 270 Nits	FHD 220 Nits with IPS FHD IPS 700/400 Nits 4K 400 Nits with IPS FHD IPS 220 Nits with touch
HDD	Standard 2.5"/M.2 PCIe	Standard 2.5"/M.2 PCIe	M.2 PCIe	M.2 PCIe only
Graphics	Integrated/Discrete	Integrated/Discrete	Integrated	Integrated/Discrete
Spill Resistance	Yes, with 2 drainage holes	Yes, but no drainage holes	Yes, but no drainage holes	Yes, but no drainage hole
USB Ports	2 x USB 3.1 + 1 x USB Type C + 1 x USB Type C Thunderbolt	3 x USB 3.1 + 1 x USB Type C		2 x USB 3.1 + 1 Thunderbolt
Security Slot	Standard Kensington	Unique Nobel Wedge Slot	Unique Nobel Wedge Slot	Standard Kensington

# ThinkPad T480



Feature	ThinkPad T480	Latitude 5490	Latitude 7490	EliteBook 840 G5
Docking	Mechanical Side Docking + Thunderbolt	USB Type C only	USB Type C (Thunderbolt optional)	Docking connector + Thunderbolt
Power Bridge Battery	Internal 3 cell - 23 Whr/External 6 Cell (48 Whr/72 Whr)	No	No	No
Battery	Internal 24 Whr/External 24 Whr/48 Whr/72 Whr (80% in 60 minutes)	Internal 42 Whr/51 Whr/68 Whr ExpressCharge (No mention of charge time)	Internal 43 Whr/60 Whr ExpressCharge (No mention of charge time)	Internal 50 Whr (50% in 30 minutes)
MIL-specs	12 MIL-Specs/21 procedures	17 MIL-Specs/procedures, but no details	MIL-STD testing, but no details	MIL-STD 810G, but no details
Other Tech	<ul style="list-style-type: none"> <li>• ThinkShutter</li> <li>• Smart Beep Diagnostics</li> <li>• Match on Chip FPR with Anti-spoofing</li> </ul>	None mentioned	<ul style="list-style-type: none"> <li>• None mentioned</li> <li>• Touch FPR available but no mention of Anti-spoofing</li> </ul>	<ul style="list-style-type: none"> <li>• Yes, comes with a physical shutter</li> <li>• Touch FPR available but no mention of Anti-spoofing</li> </ul>

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# Versatility at its best.

Reimagine versatility with Lenovo

**ThinkPad** L380 YOGA

**Lenovo**



Multi-mode  
capability for  
diverse functions



Lightweight  
system for greater  
portability



Up to 1TB M.2 SSD  
for maximum data  
reliability



Backlit keyboard  
for increased  
convenience



Anti-spoofing  
fingerprint reader  
for enhanced  
security

# ThinkPad L380 Yoga



Feature	ThinkPad L380 Yoga	ProBook 430 G5
Positioning	Enterprise	SMB
Form Factor	Multi-mode	Standard laptop
Display	FHD 330 Nits with IPS touch	HD 220 Nits FHD 220 Nits UWVA HD 220 Nits with touch
CPU with vPro	Yes	No
Pen Support	Standard feature	No
TrackPoint	ThinkPad Pen Pro on-board garage	No
Touchpad	3+2 button touchpad	Buttonless touchpad

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# ThinkPad L380 Yoga



Feature	ThinkPad L380 Yoga	ProBook 430 G5
USB 3.0 Ports	2 x USB 3.1 + 2 x USB Type C	2 x USB 3.1 + 2 x USB Type C
Battery	Internal 45 Whr with rapid charge up to 16.1 hours (80% in 60 minutes)	Internal 48 Whr long life (90% in 90 minutes)
MIL-specs	12 MIL-specs/ 21 procedures	Designed to pass MIL-STD 810G testing, but no details provided
Dimensions	322mm x 224.2mm x 18.8mm	326mm x 234mm x 19.8mm
Others	<ul style="list-style-type: none"> <li>• Lenovo Smartbeep tech</li> <li>• Match on chip FPR with Anti-spoofing</li> </ul>	<ul style="list-style-type: none"> <li>• No mention of Smartbeep tech</li> <li>• Touch FPR available but no mention of Anti-spoofing</li> </ul>

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# Ultra portable. Ultra durable.

Stay inspired with Lenovo

**ThinkPad** L380

**Lenovo**<sup>™</sup>



Quad Core/32GB RAM for unbeatable performance



Lightweight system for greater portability



1TB M.2 SSD for maximum data reliability



Backlit keyboard for increased convenience



Anti-spoofing fingerprint reader for enhanced security

# ThinkPad L380



Feature	ThinkPad L380	ProBook 430 G5
Positioning	Enterprise	SMB
Display	HD 250 Nits FHD 250 Nits with IPS FHD 250 Nits with IPS touch	HD 220 Nits FHD 220 Nits UWVA HD 220 Nits with touch
CPU with vPro	Yes	No
TrackPoint	Standard feature	No
Touchpad	3+2 button touchpad	Buttonless touchpad
USB 3.0 Ports	2 x USB 3.1 + 2 x USB Type C	2 x USB 3.1 + 1 x USB Type C
Battery	Internal 45 Whr with rapid charge up to 16.1 hours (80% in 60 minutes)	Internal 48 Whr long life (90% in 90 Minutes)
MIL-specs	12 MIL-Specs/21 procedures	Designed to pass MIL-STD 810G testing, but no details provided
Dimensions	321.8mm x 224.2mm x 18.8mm	326mm x 234mm x 19.8 mm

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# Unbeatable performance. Exceptional value.

Stay ahead of the curve with Lenovo

**ThinkPad** L480

**Lenovo**



Quad Core/2GB  
GPU/32GB RAM  
for unbeatable  
performance



Backlit  
keyboard for  
increased  
convenience



Lightweight  
system for  
greater  
portability



Smart Card reader,  
IR cam, Lenovo  
Glance Eye Tracking,  
and fingerprint  
reader for enhanced  
security



4G network  
for better  
connectivity

# ThinkPad L480



Feature	ThinkPad L480	Latitude 3490	Latitude 5490	440 G5
Positioning	Enterprise	SMB	Enterprise	SMB
Display	HD-220 Nits FHD 250 Nits (with optional touch)	HD-220 Nits FHD 220 Nits (with optional touch)	HD-200 Nits FHD 220 Nits with WVA (with optional touch)	HD-200 Nits/ FHD 220 Nits with WVA (optional touch)
CPU with vPro	Yes	No	Yes	No
Hinge	180 degrees	130-155 degrees	180 degrees	No
Spill Resistance	Yes	Not mentioned	Yes	Yes
TrackPoint	Standard feature	No	Optional	No
Touchpad	3+2 button touchpad	Buttonless touchpad	3+2 button touchpad	Buttonless touchpad
Fingerprint Reader	Match on chip FPR with Anti-spoofing	<ul style="list-style-type: none"> <li>• Touch FPR</li> <li>• No mention of Anti-spoofing</li> </ul>	<ul style="list-style-type: none"> <li>• Touch FPR</li> <li>• No mention of Anti-spoofing</li> </ul>	<ul style="list-style-type: none"> <li>• Swipe FPR</li> <li>• No mention of Anti-spoofing</li> </ul>

# ThinkPad L480



Feature	ThinkPad L480	Latitude 3490	Latitude 5490	440 G5
USB Ports	2 x USB 3.1 + 2 x USB Type C	1 x USB 2.0 + 1 x USB 3.0 + 1 x USB Type C	3 x USB 3.1 + 1 x USB Type C	2 x USB 3.1 + 1 x USB Type C
Security Slot	Standard Kensington	Unique Nobel Wedge Slot	Unique Nobel Wedge Slot	Standard Kensington
Docking	Mechanical side docking	USB docking	USB Type C	USB Type C
Battery	Internal 45 Whr with rapid charge (80% in 60 minutes)	Internal 42 Whr/56 Whr ExpressCharge (No mention of charge time)	Internal 42 Whr/51 Whr/68 Whr ExpressCharge (No mention of charge time)	Internal 48 Whr long life (90% in 90 minutes)
MIL-specs	12 MIL-specs/21 procedures	MIL-STD mentioned, but no details provided	17 MIL-specs/procedures, but no details provided, but no details	Designed to pass MIL-STD 810G testing, but no details provided
Weight	1.68 Kg	1.78 Kg	1.6 Kg	1.63 Kg
Others	<ul style="list-style-type: none"> <li>• Lenovo Smartbeep tech</li> <li>• Match on chip FPR with Anti-spoofing</li> </ul>	<ul style="list-style-type: none"> <li>• None mentioned</li> <li>• Touch FPR available but no mention of Anti-spoofing</li> </ul>	<ul style="list-style-type: none"> <li>• None mentioned</li> <li>• Touch FPR available but no mention of Anti-spoofing</li> </ul>	<ul style="list-style-type: none"> <li>• None mentioned</li> <li>• Touch FPR available but no mention of Anti-spoofing</li> </ul>

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# Discover ultra portability at your fingertips.

Live life on the go with Lenovo

**ThinkPad** A275

**Lenovo**



Lightweight  
system for  
greater  
portability



Mainstream  
AMD Pro for a  
power-packed  
system



Glass fiber for  
prolonged  
durability



Smart Card  
reader for  
enhanced  
security



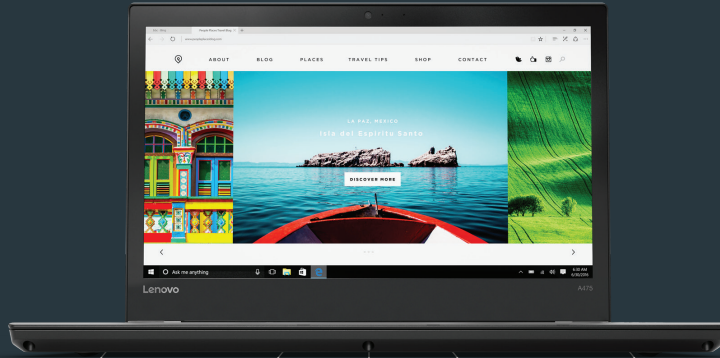
DASH  
Manageability for  
remote diagnostics  
and convenient  
troubleshooting

# Secure. Safe. Smart.

Be business-ready with Lenovo

ThinkPad<sup>®</sup>A475

Lenovo<sup>™</sup>



AMD Pro  
A12-9800B/  
32GB RAM for  
unbeatable  
performance



DASH  
Manageability for  
remote diagnostics  
and convenient  
troubleshooting



Smart Card  
reader for  
enhanced  
security



Dual battery for  
an extended  
battery life



Lightweight  
system for  
greater  
portability

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# ThinkPad

## Competitor Outline

ThinkPad Model	Commercial Competitor 1	Dell Commercial Competitor 2	Secondary Competitor & Remarks
X1 Carbon			
X1 Yoga			
X1 Tablet	Elite X2 1012 G2 Pro x2 612 G2	Latitude 7285 2-in-1	
X280	EliteBook 830 G5 <small>New</small> EliteBook 820 G4	Latitude 7290 <small>New</small>	Low-end model: Latitude 5290 <small>New</small>
T480	EliteBook 840 G5 <small>New</small>	Latitude 7490 <small>New</small>	
T480s	EliteBook 1040 G4	Latitude 7490 <small>New</small> XPS 13 (9370) <small>New</small>	Apple MBP
T580	EliteBook 850 G5 <small>New</small>		
Yoga X380	EliteBook X360 1030 G2	XPS 13 2-in-1	
A475	EliteBook 745 G4		
A275	EliteBook 725 G4		
Miix 520			Surface Pro/Book Asus Transformer 3 Pro
L380			
L380 Yoga			Low-end model: Latitude 3390 2-in-1 <small>New</small>
L480	ProBook 640 G4	Latitude 5490 <small>New</small>	
L580	ProBook 650 G4	Latitude 5590 <small>New</small>	
E480	ProBook 440 G5 <small>New</small> / 430 G5 <small>New</small>	Latitude 3490 <small>New</small>	
E580	ProBook 450 G5 <small>New</small>	Latitude 3590 <small>New</small>	
V330	ProBook 430/440/ 450 G5 <small>New</small>	Latitude 3490/3590 <small>New</small>	
V130	240/250 G6		



## Feature List

Feature	X1 Carbon	X1 Yoga	X1 Tablet	X280	X380 Yoga	T480s	T480	T580	L380	L380 Yoga	L480	L580	E480/E580
Think Shutter	✓	✓	✗	✓	✗	✓	✓	✓	✗	✗	✗	✗	✗
IR Camera	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✗	✗
World Facing Camera	✗	✗	✓	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗
Match-on Chip FPR	✓	✓	✗	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗
Match-on Host FPR	✗	✗	✓	✗	✗	✗	✗	✗	✓	✓	✗	✗	✓
Anti-spoofing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FIDO Authentication	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Smart Card Reader	✗	✗	✗	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗
Standard HDD	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗	✓	✓	✓
DIMM Slots	✗	✗	✗	✗	✗	✓ <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓
Rapid Charge	✓	✓	✗	✓	✓	✓	✗	✗	✓	✓	✓	✓	✗
Pen Support	✗	✓	✓	✗	✓	✗	✗	✗	✗	✓	✗	✗	✗
Mini RJ45	✗	✓	✗	✗	✗	✓	✗	✗	✓	✓	✗	✗	✗
Standard RJ45	✗	✗	✗	✗	✗	✓	✓	✓	✗	✗	✓	✓	✓
Ethernet Adapters	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
Side Mechanical Docking	✓	✗	✗	✓	✗	✓	✓	✓	✗	✗	✓	✓	✗

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# ThinkPad

## Configurations

### Materials

#### Top Cover

CFRP - X1 Carbon/X1 Yoga/X280/T480s/X380 Yoga

Mg/AL Hybrid - X1 Tablet/T480 (optional)

Al - L380/AL with Mg frame - L380 Yoga

PPS/GF - X280 (HD/w/Touch)/T480/T580

PC/ABS - L480/L580 & 11e

#### Bottom Cover

Mg Alloy/PPS Hybrid - X1 Carbon/X1 Yoga

Mg Alloy - X280/T480s

CF Hybrid - X380 Yoga

GFRP - T480/T580/L380/L380 Yoga

PC/ABS - L480/L580 & 11e

### IR Camera All models except L380/L580/11e

Without restrictions - X1 Carbon/X280/T480s

WWAN restrictions - X1 Yoga/X380 Yoga/L380  
Yoga/T480/T580/L480

NFC restrictions - X1 Tablet

### Display

HDR WQHD IPS 500 nit - X1 Carbon/X1 Yoga

UHD 300nits - T580

WQHD IPS 300 nit - X1 Carbon/X1 Yoga/T480/T480s

3K 3000x2000 - X1 Tablet

FHD IPS - All except X1 Tablet & 11e

FHD OnCell Touch - All except Yoga series & L580

HD IPS - Only on 11e

HD TN - X280/T480/L380/L480/L580/11e

### Memory

On-board Memory X1 Series/X280/X380 Yoga/11e

1 DIMM only T480s (optional on board up to 24GB)

2 DIMMs T480/T580/L380/L380 Yoga/L480/L580

(Touch all except L580)

### Storage - Hard Disk Drives

Spinning drives and 2.5" SSD only available on

T480/T580 L480/L580

2.5" SSD - 128GB/180GB Opal/256GB Opal

### Graphics

Discrete - T480/T480s/T580 - NVIDIA MX150 2GB

- L480/L580 - Radeon 530

Integrated - No IRIS graphics available

- Intel integrated is UHD620

### Web Camera

All models HD720p/IR\*

HD720p World Facing only on L380 Yoga/11e Yoga

### ThinkShutter

X1 Carbon/X1 Yoga

X280/T480/T480s/T580



## Configurations

### Fingerprint Reader

All models - Touch FPR MOC except 11e

Match on Host - X1 Tablet / L380 / L380 Yoga / E480

### Standard RJ45

T Series / L480 / L580 / 11e

### Mini RJ45 (extension cable)

X1 Carbon / X1 Yoga / X380 Yoga / L380 Yoga / L380

### Docked Pen

ThinkPad Pen Pro - All Yoga models & X1 Tablet

### Dock Support

USB Type C - All Models

USB 3.0 - All except X1 Tablet

Thunderbolt - All except L Series & 11e

CSI8 Side mechanical - All except Yoga Series,  
X1 Tablet & L380

Hybrid USB C & A - All models

### Battery Support

2 cell Polymer 42Whr - Integrated X1 Tablet

3-cell Polymer 32Wh <sup>Front Battery</sup> - Integrated T580

3 cell Polymer 42Wh - Integrated 11e

3 cell polymer 45Wh - Integrated L380/L380 Yoga

3 cell LiOn 45Wh - Integrated L380/L480

3 cell Front Polymer 23Wh - Integrated T480

3 cell Rear Polymer 23Wh - External T480

4 cell 51Whr LiOn - External X380

6 cell Li-Polymer 48Wh - Integrated X280

6 cell Cylindrical 48Wh - External T480/T580

6 cell Cylindrical 72Wh - External T480/T580

56Wh Li-Polymer - Integrated X1 Yoga

57Wh Li-Polymer - Integrated X1 Carbon / T480s

### dTPM

All models except 11e

### NFC

All models except

L480/L580/11e

### Smart Card Reader

X280/X380 Yoga

T480/T480s/T580

L480 / L580

### Dolby

Audio Premium -

all X/X1 and T

Audio - all others

### Rapid Charge

All models except

X1 Tablet/T480/

T580/11e Series

### LED Implementation

Camera On/CAPS LOCK

FnLock/Power Charging

All models except 11e

### Skype Certification

All models except 11e

### Bottom Tamper

All models except X1 Tablet/11e

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