ThinkPad 2018

Flemming Märtens

February, 2018

Lenovo
ThinkCentre
Lenovo
ThinkSmart
ThinkPad
ThinkStation
ThinkStation
ThinkStation
ThinkStation
Lenovo

NEW

8TH GENERATION INTEL® CORE™ VPRO™ PLATFORM (KABY LAKE REFRESH)

High Performance, Secure Mobile PCs designed for Business

** In Planning

PRODUCTIVITY

Boost productivity with Intel's first Quad-Core vPro™ processor for mainstream commercial notebooks

Performance

Energy efficient Quad-core delivers up to 37% higher performance[1] over 7th Gen Intel® Core™ enabling wide range of mobile form factors for business

Thunderbolt™ 3

Fastest most versatile USB-C connection – enterprise Thunderbolt™ docking, dual 4K display, fast charging, Peer to Peer data transfer

Collaboration

Start meetings faster, and wire-free with Intel Unite®

HARDWARE ENHANCED SECURITY

Protect your business from becoming a victim of data breaches with hardware enhanced security

Intel® Authenticate

Customizable MFA solution for identity protection – Bluetooth proximity, PIN, Intel AMT Location, fingerprint, **facial, NFC, behavioral authentication, multi/roaming user support, Azure AD SSO integration****

Intel® Data Guard

Data encryption solution that transparently protects files across the enterprise

Threat Management**

Real-time **Accelerated Memory Scan** offloaded to GPU and software **ROP detection** for threat analytics

REMOTE MANAGEABILITY

Remotely access a PC to discover, activate, monitor, protect, and manage it independently of its power state

Intel Endpoint Management Assistant[2]

Flexible device management solution hosted on premise or in the cloud to simplify vPro endpoint management

Intel Manageability Commander

Software Console integrated with Microsoft SCCM* to remotely access PCs and utilize Intel® AMT features

STABILITY

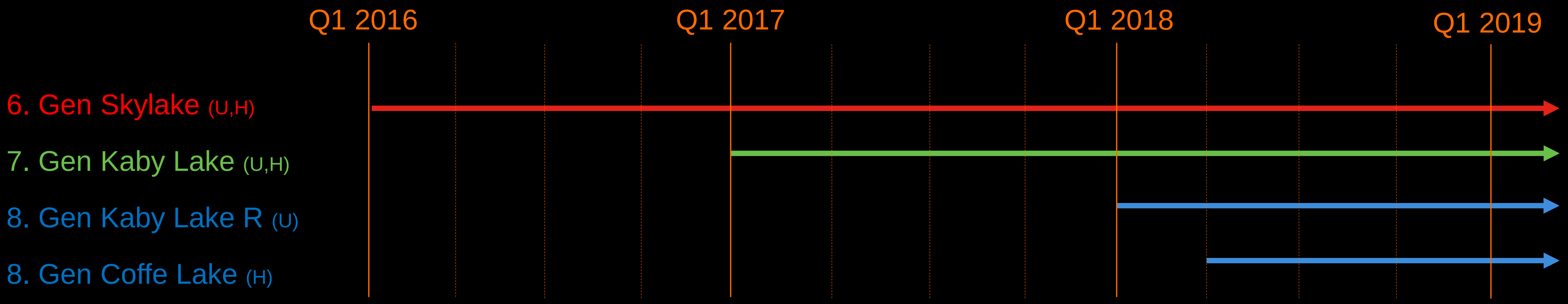
Intel® Stable Image Platform Program (SIPP) provides platform hardware and software stability for 15 months

INTEL TRANSPARENT SUPPLY CHAIN

Comprehensive service that enables HW component and system traceability from authorized sources on select vPro™ systems

Think

Intel roadmap



intel
CORE i3
8th Gen
intel
CORE i7
8th Gen
intel
CORE i5
8th Gen

Design & Engineering

Quad core CPU’s

New, simple and easy docking for full portfolio

Broad & Consistent USB-C/Thunderbolt Implementation

ThinkShutter Camera Privacy

Rapid charge on many systems

Ultra Premium HDR Display Option

Yoga Form Factor Expansion

ThinkPad 2018 Connectivity

USB-C & Thunderbolt 3: Broad and Consistent Implementation

- Full USB-C functionality on all 2018 ThinkPad systems.
- Supports all 4 essential USB-C functions.
  - USB 3.1 Data,
  - Display Port video,
  - Power-out for charging peripherals,
  - Power-in for charging the system*
- Additionally, all X1, T ,X and P Series systems as support Thunderbolt 3.
- T480, T480s, T580, X280, X380 Yoga, P51
  - 1x Thunderbolt
- X1 Carbon, X1 Yoga, X1 Tablet, P71
  - 2x Thunderbolt
- All 2018 ThinkPad systems (except X1 Tablet) continue to support HDMI and USB-A.

Thunderbolt™ 3
More Speed. More Pixels. More Possibilities.

* except for P51, P71 due to USB-C 100W power limitation

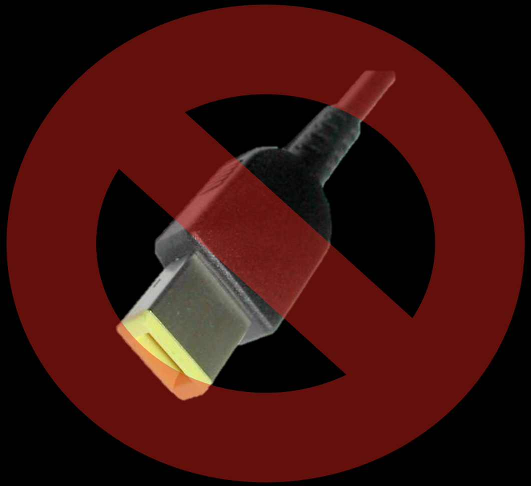
ThinkPad AC adapter 2018

Most 2018 ThinkPads uses USB C charging
  - X380 Yoga can use both the Slim adapter and USB-C

ThinkPad P51, P71 can only charge via Slim adapter
  - Requirement is above 100W

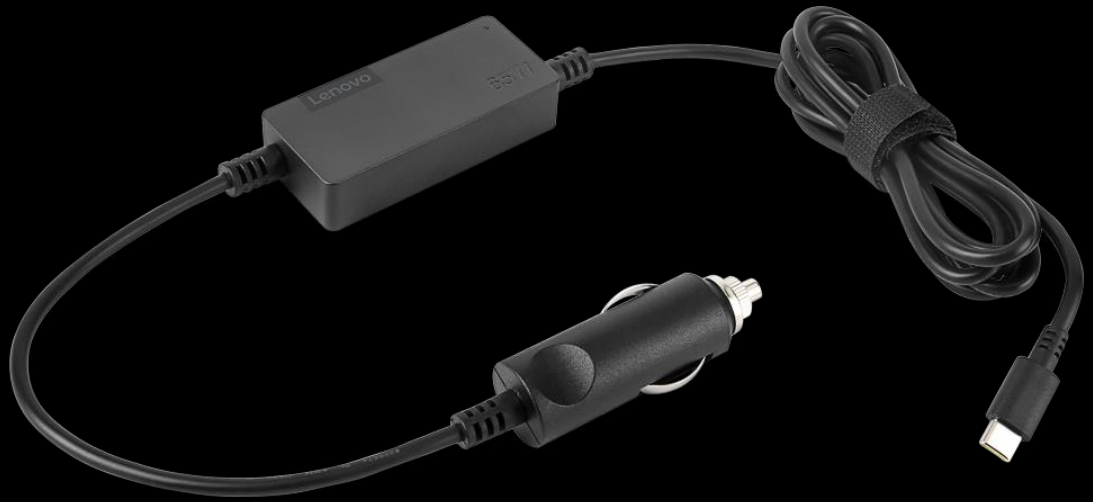
Slim tip is still used for docks, Tiny desktop and some monitors

New battery pack can also use Slim tip adapters



USB-C 65 watt 12/24v DC Adapter

- Refuel your laptop or mobile device via USB-C
- Connects to your car’s cigarette lighter outlet.
- 65W power enables rapid charging
- Compliance with PD 3.0
  - Power profile includes 5V, 9V, 15V, 20V,suitable to charge NB, tablet and Phones
- Backward compatible with PD2.0
- Slim and light design for traveling



Lenovo Power bank

- Refuel your laptop or mobile device via USB-C
  - PD 3.0, 45 watt
- Slim tip ThinkPads supported via adapter (in the box)
- Connectors
  - USB C In/Out
  - 2x USB A Out
  - Slim tip (in)
  - Round barrel (Miix) in
- Capacity
  - 12.000 mAh

Lenovo
Lenovo

Available in april

Enhanced Security & Privacy

ThinkShutter Camera Privacy

- T Series, X280, X1 Carbon, X1 Yoga

Anti-Spoofing Fingerprint Technology

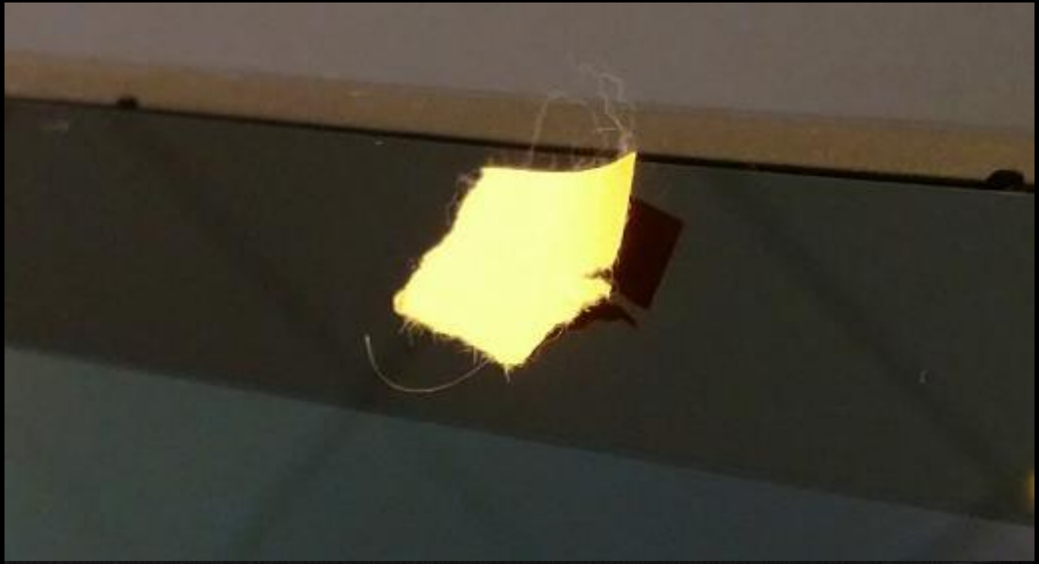
Extensive support for Match on Chip Fingerprint Reader

Facial Recognition w/ IR Camera

- Windows Hello Logon
- “Glance” Gaze Tracking

Support for FIDO web security

- Universal Authentication Framework (UAF)
- Universal 2nd Factor (U2F).



Trusted Quality & Reliability

MIL-STD: 12 Methods & 21 Procedures for all Commercial ThinkPad

What we did:

- One new procedure is being added to 2018 ThinkPad MIL-STD 810G testing.
- Method 516.6 Shock adds Procedure VI – Bench Handling

Why it matters to customers:

- ThinkPad continues to have leadership with MIL-STD in the area of total Methods and Procedures, as well as the span and consistency of testing across the portfolio

COLD
HEAT
VIBE
HUMID
SHIP VIBE
SHOCK
TEMP
ALTITUDE
RADIATE
FUNGUS
DUST
ATEX*

2018 Kaby Lake Refresh
500.5 Low Pressure (2 procedures)
501.5 High Temperature (2 procedures)
502.5 Low Temperature (2 procedures)
503.5 Temperature Shock (2 procedures)
505.5 Solar Radiation (2 procedures)
507.5 Humidity (1 procedure)
508.6 Fungus (1 procedure)
510.5 Sand and Dust (2 procedures)
511.5 Explosive Atmosphere (1 procedure)
514.6 Vibration (2 procedures)
NEW! 516.6 Shock (3 procedures)
528 Vibrations of Shipboard (1 procedure)
Total Methods: 12
Total Procedures: 21

All except E Series

All 2017 Kaby Lake ThinkPads are to be tested except E Series, which are not tested since the target customer segment typically does not require Mil-Spec and the testing adds cost to the product. ThinkPad E series still passes all core ThinkPad reliability and durability tests

The ThinkPad 11e is tested to three additional procedures.

Trusted Quality & Reliability

Intelligent PC Diagnostics

What we did:

- Developed audio diagnostic codes (tones) that can be “heard” by an app, which then identifies the failure condition of the system
- The app also receives the serial number of the system and reports the machine type and warranty status.

Why it matters to customers:

- When diagnosing a non-booting ThinkPad, technicians previously used a series of “beep” codes that required the customer to count the number and pattern of beeps and then look up the code in a manual.
- The new ThinkPad Intelligent Diagnostics allows a technician to quickly identify the nature of a problem with a simple smartphone app, allowing quicker and more accurate service.

Lenovo
PC
Diagnostics

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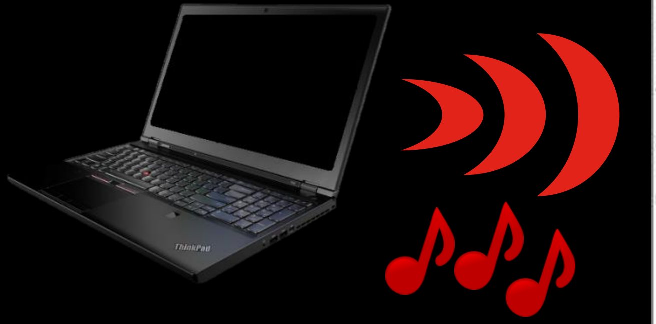
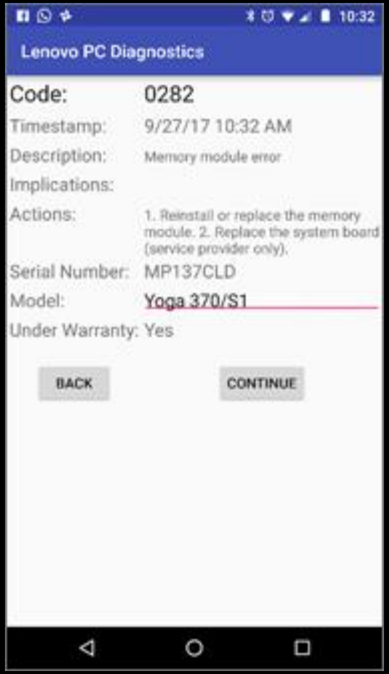




Code: 0282
Timestamp: 9/27/17 10:32 AM
Description: Memory module error
Implications:
Actions: 1. Reinstall or replace the memory module. 2. Replace the system board (service provider only).
Serial Number: MP137CLD
Model: Yoga 370/S1
Under Warranty: Yes

All except E Series

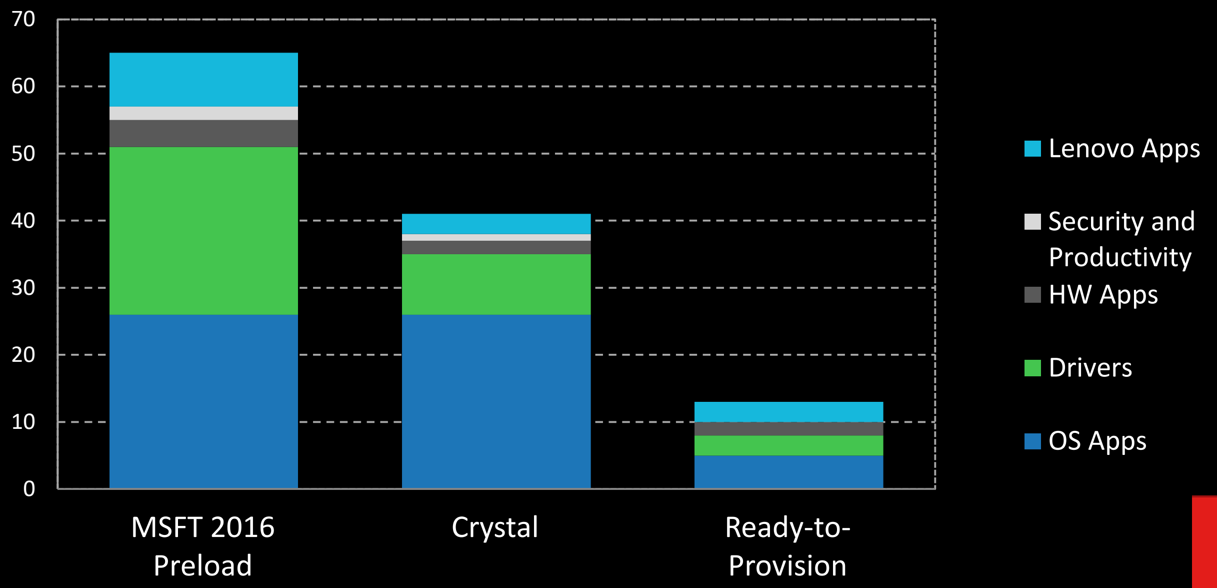
Software & Imaging

Business-Ready Preloads for an Agile IT world

Crystal: The new standard preload that offers a minimal profile

Ready-to-Provision: A special bid, custom-optimized preload with core Windows 10 and Lenovo hardware enablement only

Custom Image Service: A service engagement that delivers a fully-customized and IT-defined factory preload, including cloud deployment options



Software & Imaging

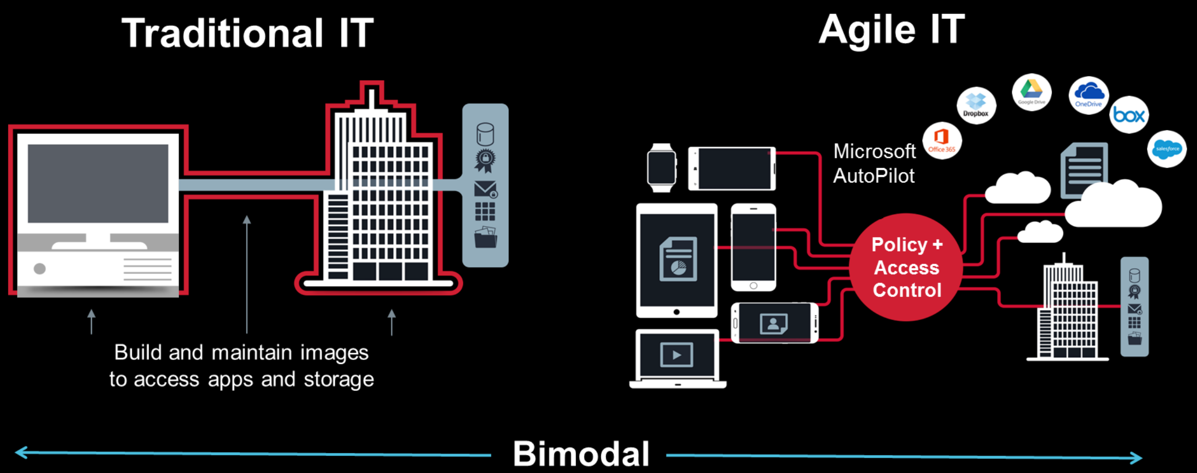
AutoPilot: Touchless IT deployment

What we did:

- Worked with Microsoft to support their new AutoPilot cloud deployment

Why it matters to customers:

- Offers IT the ability to deploy PC's more like mobile phones
- Enables a move away from traditional custom images
- Offers fewer touch points and less shipping/handling
- Lower cost and more up-to-date PC deployments


Traditional IT
Build and maintain images to access apps and storage
Agile IT
Microsoft AutoPilot
Policy + Access Control
Bimodal

Dedicated IT Resources
Image Engineering
Deployment

User and Business own Multiple Devices
No Image - Cloud Managed Software
Self Service

2018 Docking

- more choice

2018 Docking

New CS18 Mechanical dock
3 versions

New 2018

Thunderbolt 3 dock

USB C dock with native Video

Hybrid USB A/C dock

New 2018

USB A Pro dock

USB A basic dock

ThinkPad
ThinkPad

ThinkPad P51 and P71 uses the Workstation dock

ThinkPad 2018 Innovations – Design & Engineering

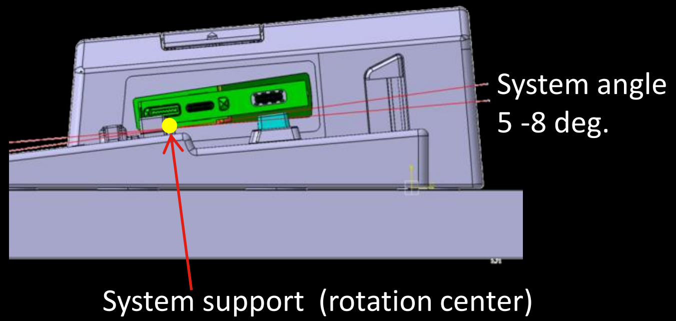
21st century docking - Seamless and easy

What we did:

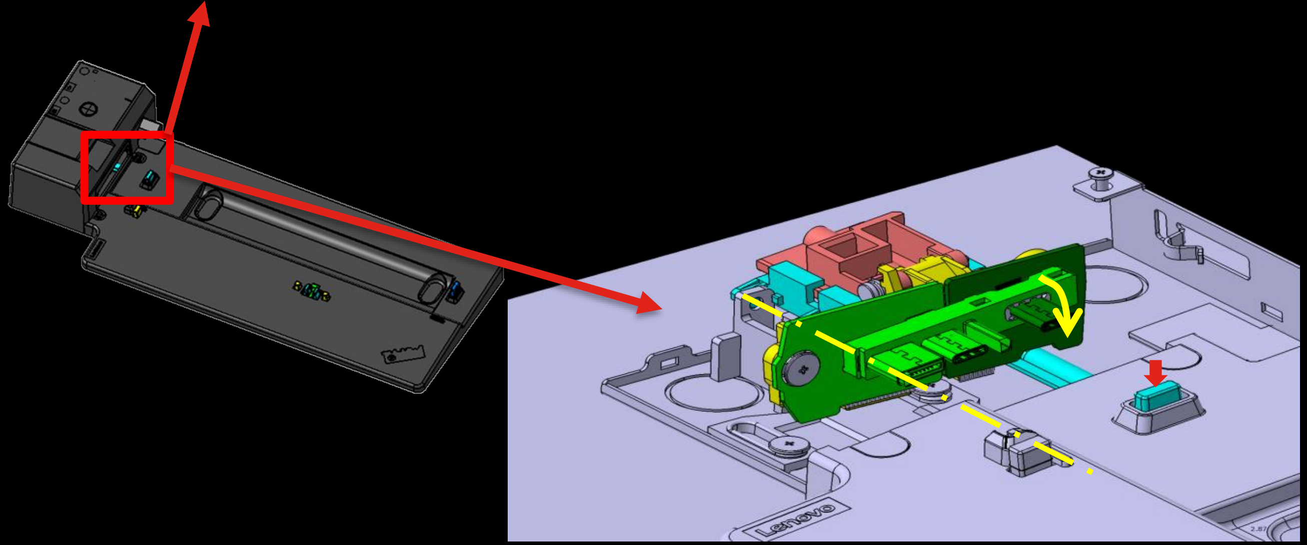
- Designed a new, thoroughly modern dock with modern connectivity and enabling freedom of system design
- Focused on usability – easy alignment and comfortable connection
- Engineered a future-focused docking system with a flexible and self-leveling mechanism to support multiple system sizes requiring different docking angles.

Why it matters to customers:

- Offers outstanding usability when docking, and terrific stability while docked
- Common docking across many mainstream and flagship products
- Enables a long platform life
- Allows for thinner system designs


System angle
5 -8 deg.

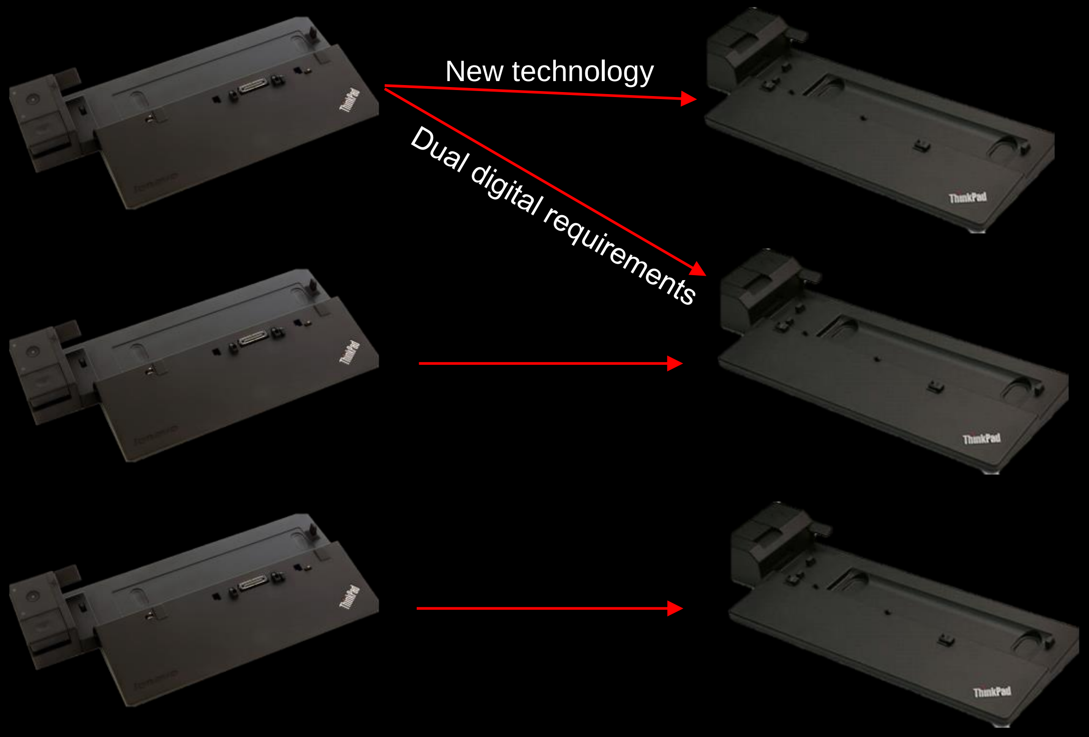
System support (rotation center)



X1C, all T, X280, L480, L580

	CS13	CS18 Basic/Pro/Ultra
Size	345 x 165	369 x 141 w/o Bump for Key/Rear
Dock Direction	Vertical	Side

Mechanical Dock Transition


New technology

Dual digital requirements

CS13 Ultra Dock
90W / 135W / 170W

CS18 Ultra Dock
135W

2*4k@30Hz + 1 x 1920*1080@60Hz
dual USB-C
DP1.4 & HDMI2.0
USB3.1 gen2 10Gbps

CS13 Pro Dock
65W / 90W

CS18 Pro Dock
135W

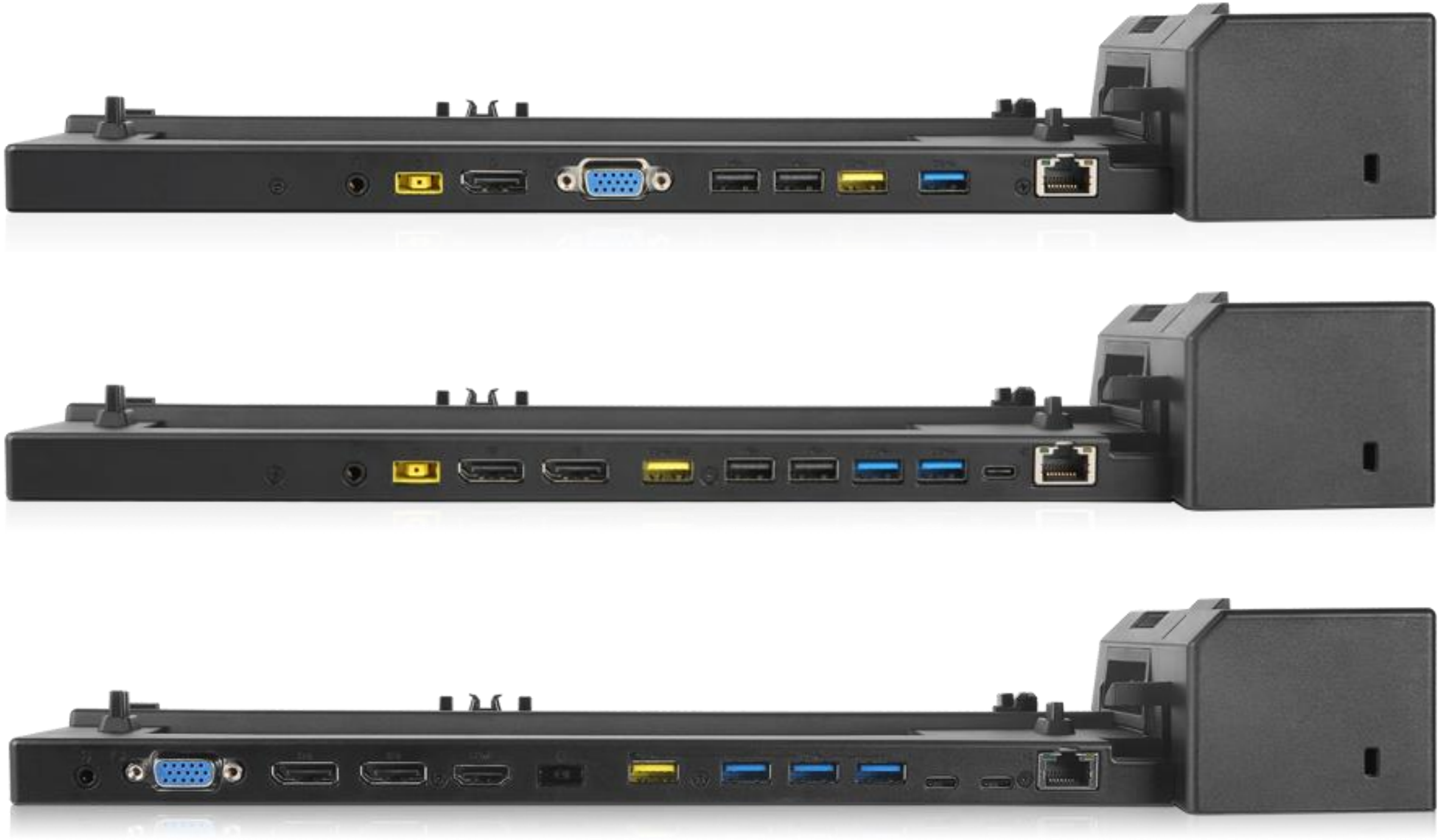
2*4k@30Hz
Single USB-C

CS13 Basic Dock
None AC / 65W / 90W

CS18 Basic Dock
90W

1*4k@60Hz

CS 18 Docks – Port layout



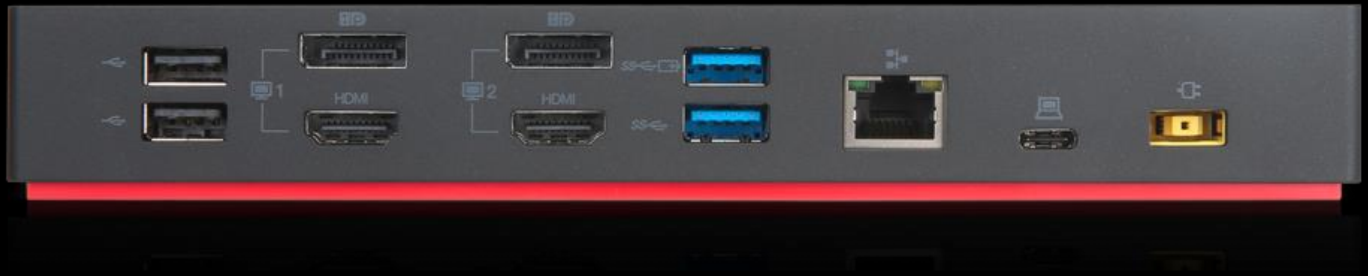
USB C and Thunderbolt 3 dock

- USB C Dock:
  - Display Connections
    - 2x DisplayPort, 1x VGA
  - Max resolution:
    - 1x 3840*2160@30Hz
    - 2x 1920*1080@60Hz
  - Gigabit Ethernet
  - 1x USB C, 3x USB 3.0, 2x USB 2.0
  - Audio, Kensington lock slot

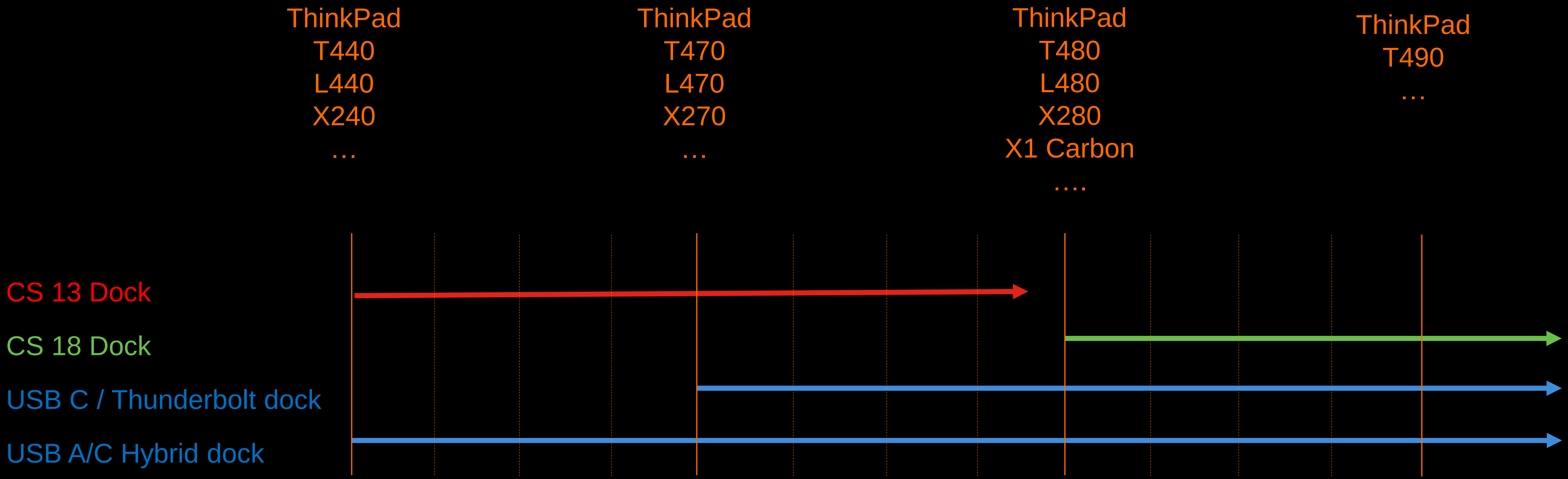
- Thunderbolt 3 dock:
  - Display connections
    - 2x Displayport, 1x HDMI, 1x VGA, 1x USB C
  - Max resolution:
    - 1x 3840*2160@60Hz
    - 2x 3840*2160@30Hz (60hz on X1 Series)
    - 3x 3840*2160@30Hz on X1 Series
  - Gigabit Ethernet
  - 1x USB C (Thunderbolt), 5x USB 3.0 (A)
  - Audio, Kensington lock slot

Hybrid USB A/C Dock

- Display Connections
  - 2x DisplayPort, 2x HDMI
- Max resolution:
  - 2x 3840*2160@60Hz
- Gigabit Ethernet
- 1x USB C (Front)
- 5x USB A,
  - 2x USB 2.0, 3x USB 3.0
  - 1 Front, 4 Back
- Audio, Kensington lock slot
- Power to USB C connected laptop
- Separate power is needed for USB A connected laptop



Docking transition



ThinkPad
T440
L440
X240
…

ThinkPad
T470
L470
X270
…

ThinkPad
T480
L480
X280
X1 Carbon
….

ThinkPad
T490
…

CS 13 Dock

CS 18 Dock

USB C / Thunderbolt dock

USB A/C Hybrid dock

Think

2018 Product Highlights

2018 ThinkPad

Commercial Notebooks

Mobile Workstations

15”	14”	12-13”	YOGA	Detachable	MWS
	X1 Carbon		X1 YOGA	CS X1 Tablet	
	CS T480s	CS X280 / A275	X380 YOGA	Miix 520	CS P52s, P51, P71
T580	T480 / A475				
CS L580	CS L480	CS L380	CS L380 YOGA	CS Lenovo Tablet 10	
CS E580	CS E480				

X1 CARBON

2018 X1 Carbon

THE LIGHTEST FULL PERFORMANCE PROFESSIONAL NOTEBOOK

- 1.1KG & 15MM THIN
- HDR DISPLAY, 100% COLOR GAMUT & 500 NITS
- OPTIONAL MULTI-TOUCH
- SIDE MECHANICAL DOCKING
- MODERN STANDBY
- 360^0 FAR-FIELD MICROPHONES
- THINKSHUTTER CAMERA PRIVACY
- GLOBAL LTE-A (CAT9)

Engadget
Best of CES WINNER
Best PC or Tablet

THIN. LIGHT. POWERFUL.

2018 ThinkPad X1 Carbon

WHAT’S NEW

NEW USER EXPERIENCES

- Modern Standby with Wake on Voice
- HDR Display (WQHD 500nits & 100% CG)
- Low weight Touch available on FHD display
- Side Mechanical Docking
- Cortana Premium w\4m 360º Far Field Communication

IMPROVED PERFORMANCE

- 35% Performance boost with 8th Gen Quad Core CPUs &
- Faster 2133Mhz LPDDR3 Memory
- Globally banded LTE CAT9 Card providing higher bidirectional speeds

ENHANCED SECURITY & PRIVACY

- ThinkShutter on HD Camera
- Windows Hello w/ Touch FPR & IR Camera
- Glance by Mirametrics

2018 ThinkPad X1 Carbon

GEN TO GEN

	X1 Carbon G5	**X1 Carbon G6**
Dimension	323.5 x 217.1 x 15.95 mm	323.5 x 217.1 x 15.95 mm
Weight	1.13kg	1.13kg
Screen Size & Resolution	14”: FHD IPS, WQHD IPS	14”: FHD IPS, ***FHD IPS Touch***, WQHD IPS, ***HDR WQHD IPS***
CPU	SKY: i5/i7 vPro; KBL: i5/i7, i5/i7 vPro	KBL: i5 vPro; ***KBL R: i5/i7, i5/i7 vPro***
Graphics	Intel HD 620	Intel UHD 620
Memory	LPDDR3: 1866MHz 8GB / 16GB	LPDDR3: ***2133Mhz 8GB / 16GB***
Storage	Up to 1TB PCIe SSD	Up to 1TB PCIe SSD
Camera	HD, HD + IR	***HD w/ThinkShutter***, HD + IR
Battery (Size / Life)	57Whr / Up to 15hrs	57Whr / Up to 15hrs
Rapid Charge – 80%	Yes (w\ 65W AC)	Yes (w\ 65W AC)
Keyboard	Backlight	***White LEDs*** & Backlight
Pen	N/A	N/A
Docking	Thunderbolt 3, USB3.0, WiGig	Thunderbolt 3, USB3.0, ***Side Mechanical (CS18)***
Ethernet	Via Native Ethernet Dongle	***Via “New” Ethernet Docking Dongle***
I/O Ports	2x USB A, 2x USB C (Thunderbolt), Audio, microSD Card	2x USB A, 2x USB C (Thunderbolt), Audio, microSD Card
Video Ports / Audio	HDMI, USB C, Dolby Premium Audio	HDMI, USB C, Dolby Premium Audio
Wireless Communication	WLAN / LTE CAT6 / NFC	WLAN / ***LTE CAT9*** / NFC
Biometric / Security	Touch FPR, IR Camera, dTPM 2.0	Touch FPR, IR Camera, ***ThinkShutter***, dTPM 2.0

X1 YOGA

2018 X1 Yoga

THE MOST CAPABLE PROFESSIONAL 2-IN-1

- HDR DISPLAY, 100% COLOR GAMUT & 450 NITS
- RISE AND FALL KEYBOARD
- ON-BOARD RECHAGEABLE PEN
- MODERN STANDBY
- 360^0 FAR-FIELD MICROPHONES
- THINKSHUTTER CAMERA PRIVACY
- GLOBAL LTE-A

UNCOMPROMISING AGILITY

2018 ThinkPad X1 Yoga

WHAT'S NEW

NEW USER EXPERIENCES

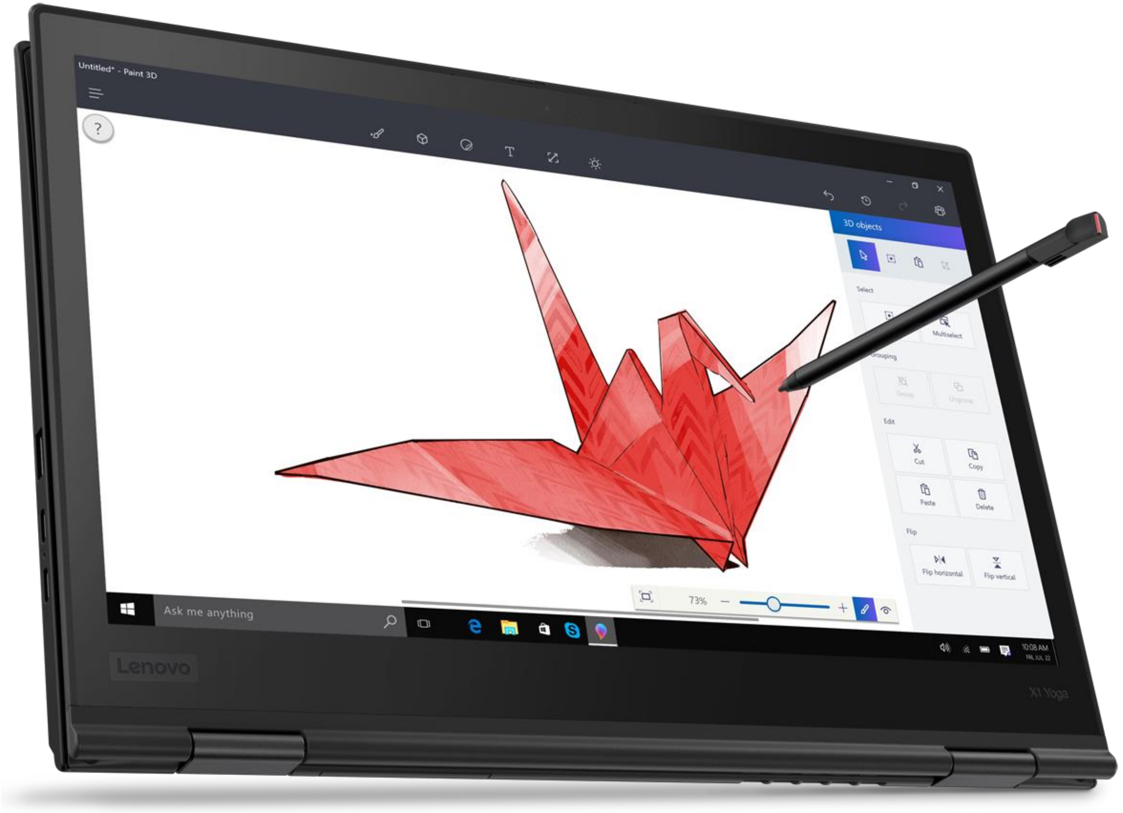
- Modern Standby with Wake on Voice
- HDR Display (WQHD 450nits & 100% CG)
- Cortana Premium w\4m 360^0 Far Field Communication
- External Pen with tilt function supports more features such as shading

IMPROVED PERFORMANCE

- 35% Performance boost with 8th Gen Quad Core CPUs
- Faster 2133Mhz LPDDR3 Memory
- Globally banded LTE CAT9 Card providing higher bidirectional speeds
- Better speakers & audio

ENHANCED SECURITY & PRIVACY

- ThinkShutter on HD Camera
- Windows Hello w/ Touch FPR & IR Camera
- Glance by Mirametrics



2018 ThinkPad X1 Yoga

GEN TO GEN

	X1 Yoga G2	X1 Yoga G3
Dimension	333 x 229 x 17.05 mm	333 x 229 x 17.05 mm
Weight	1.36kg	***1.4kg***
Screen Size & Resolution	14”: FHD IPS Touch, WQHD IPS Touch, WQHD OLED Touch	14”: FHD IPS Touch, WQHD IPS Touch, ***HDR WQHD IPS Touch***
CPU	KBL: i5/i7, i5/i7 vPro	KBL: i5 vPro; ***KBL R: i5/i7, i5/i7 vPro***
Graphics	Intel HD 620; Intel IRIS Plus 640 (Qual only)	Intel UHD 620; Intel IRIS Plus 640 (Qual only)
Memory	LPDDR3: 1866MHz 8GB / 16GB	LPDDR3: ***2133Mhz 8GB / 16GB***
Storage	Up to 1TB PCIe SSD	Up to 1TB PCIe SSD
Camera	HD, HD + IR	***HD w/Privacy***, HD + IR
Battery (Size / Life)	56Whr / Up to 15hrs	***54Whr*** / Up to 15hrs
Rapid Charge – 80%	Yes (w\ 65W AC)	Yes (w\ 65W AC)
Keyboard	Rise and Fall w\ Backlight	Rise and Fall & ***White LEDs*** w\ Backlight
Pen	Integrated and Optional ThinkPad Pen Pro	Integrated and Optional ThikPad Pen Pro
Docking	Thunderbolt 3, USB3.0, WiGig	Thunderbolt 3, USB3.0
Ethernet	Via Native Ethernet Dongle	Via Native Ethernet Dongle
I/O Ports	3x USB-A, 2x USB-C (Thunderbolt), Audio, microSD Card	***2x USB-A***, 2x USB-C (Thunderbolt), Audio, microSD Card
Video Ports / Audio	HDMI, Thunderbolt 3, Dolby Premium Audio	HDMI, Thunderbolt 3, Dolby Premium Audio
Wireless Communication	WLAN / LTE CAT6 / NFC	WLAN / ***LTE CAT9*** / NFC
Biometric / Security	Touch FPR, IR Camera, dTPM 2.0	Touch FPR, IR Camera, ***ThinkShutter***, dTPM 2.0

X1 Tablet Gen 3

ThinkPad X1 Tablet Gen 3

- 890g Light & 8.9mm Thin
- 13” 3K Display
  - 13” 3:2 507cm^2 vs 14” 16:9 537cm^2
- Quad Core KBL-R (U) CPUs (i5/i7)
- Wake on Voice (AOAC)
- New ID and Kickstand Design
- IR Camera for Enhanced Security
- Dual Thunderbolt Type-C Ports
- Global WWAN
- Serviceable

THE BUSINESS DETACHABLE

2018 ThinkPad X1 Tablet Gen 3

WHAT'S NEW

POWERFULLY UNCOMPROMISING

- Intel KBL-R Quad Core I (U) CPUs
- 13" 3K Display
- 8.9mm thin, 890g light
- Dual Thunderbolt ports
- 42whr Battery – up to 9.5hrs MM14
- Global WWAN

NATURAL INTERACTIONS

- Wake on Voice for quick access to information
- IR Camera for Windows Hello login
- New Pen Pro with tilt functionality

RUGGED AND SECURE

- Fingerprint reader & IR Camera for secure login
- MilSpec tested for ruggedness and durability
- dTPM 2.0 and NFC

2018 ThinkPad X1 Tablet Gen 3

GEN TO GEN

	X1 Tablet Gen 2	**X1 Tablet Gen 3**
Dimension	291mm x 209.5mm x 8.45mm/ 14.15mm with Thin KBD	304mmx 225.56mm x 8.9mm / 15.1mm with Keyboard
Weight	767g / 1067g w/KB	890g / 1.27Kg w/KB
Screen Size & Resolution	12.0” FHD+ 2K 2160x1440 with Gorilla Glass	13.0” 3K 3000x2000 with Gorilla Glass, 400 nits
CPU	KBL iCore (Y) Processor with vPro	KBL R: iCore (U) (i5/i7) with vPro
Graphics	Intel HD 615	Intel HD 620
Memory	4GB, 8GB, 16GB	8GB, 16GB
Storage	Up to 1TB PCIe NVMe SSD	Up to 1TB PCIe NVMe SSD
Camera	2MP / 8 MP	2MP / 8 MP with ***IR Camera Option***
Battery (Size / Life)	37Wh / Up to 9hrs MM14	***42Wh / Up to 9.5hrs*** MM14
Rapid Charge – 80%	No	No
Keyboard	CS16 Thin Keyboard in (Midnight Black, Red, Silver) Backlit	New CS16 Thin Keyboard (Black)Backlit
Pen	Active Pen	***Lenovo Pen Pro,*** Active Pen
Docking	USB Type-C, USB 3.0, WiGig, OneLink+ via Productivity Module	***Thunderbolt 3***
Ethernet	Via Dongle	Via Dongle
I/O Ports	1 x USB-A, 1 x USB-C, mDP, Micro SD, Audio, Nano Sim	2x USB-C (Thunderbolt), Micro SD, Audio, Nano Sim
Video Ports	USB Type-C, mDP	***Thunderbolt 3***
Wireless Communication	WLAN, LTE, BT	WLAN, *LTE*, ***NFC,*** BT
Biometric / Security	Touch FPR, dTPM 2.0	Touch FPR, dTPM 2.0, ***IR Camera***

X280

2018 X280

ALL- NEW FULL PERFORMANCE COMPACT DESIGN

- FULL REDESIGN – 20% LIGHTER & 15% THINNER (1.2KG & 17MM)
- OPTIONAL MULTI-TOUCH
- IR-CAMERA
- RAPID CHARGE
- THINKSHUTTER CAMERA PRIVACY
- GLOBAL LTE-A (CAT9)

Lenovo
ThinkPad

NEXT GENERATION OF PERFECTED PORTABILITY

2018 ThinkPad X280

WHAT’S NEW

BUILD FOR THE ROAD WARRIOR

- Only from 1.16 kg & 17.4 mm thin…280g less & 3mm thinner
- 48Wh Integrated battery; up to 16.6 hrs battery life
- Rapid Charge
- CRU Keyboard

IMPROVED PERFORMANCE

- FHD Touch
- Thunderbolt 3
- 2133Mhz dual channel memory
- Global CAT9 LTE A Card & EU CAT6
- SSD only, up to 1TB PCIe
- New 8th Gen Core i Processor

ENHANCED SECURITY

- ThinkShutter on HD Camera
- Windows Hello w/ Touch FPR & IR Camera
- CS18 Mechanical docking and TBT Cable docking support

ThinkPad
X280

2018 ThinkPad X280

GEN TO GEN

	X270	X280
Dimension	305.5 x 208.58 x 20.3 mm	307.7 x 209.8 x 17.4-17.8mm
Weight	2.9lbs / 1.32kg	1.16kg w/ FHD LCD; 1.30kg w/ HD LCD and FHD Touch
Screen Resolution	12.5”: HD TN, HD IPS, FHD IPS, FHD IPS LCLW Touch	12.5”: HD TN, FHD IPS, FHD IPS LCLW Touch
CPU	SKY: i3, i5, i7; KBL: i5, i7	KBL U: i3, i5 ; KBL R: i5, i7
Graphics	Intel HD 620	Intel HD 620
Memory	4,8,16GB DDR4 DIMM 2133MHz	4,8,16GB DDR4 Down 2133MHz
Storage	Up to 2TB HDD/512GB PCIe SSD	Up to 1TB PCIe SSD
Camera	HD w/o ThinkShutter	HD w/ ThinkShutter
Battery (Life / Size)	Up to 13hrs / 48Wh Up to 21.4hrs / (23+78Wh)	Up to 16.6hrs / 48Wh
Rapid Charge – 80%	No	Yes- ~60mins
Keyboard	Backlight	Backlight
Pen	N/A	N/A
Docking	Mechanical (CS13), WiGig, USB3.0, USB Type-C	Mechanical (CS18), Thunderbolt, USB A/C
Ethernet	RJ45	Native Ethernet dongle
I/O Ports	1x USB Type-C; 2x USB-A, Audio	2x USB-C (1x Thunderbolt), 2x USB-A, Audio
Video Ports	HDMI, 1x USB Type-C	HDMI, 2x USB-C
Wireless Communication	NFC/ WLAN/ LTE Cat6 w/ micro SIM	NFC/ WLAN/ LTE Cat9 w/ nano SIM
Biometric / Security	Touch FPR, dTPM 2.0, SCR	Touch FPR, ThinkShutter, dTPM 2.0, SCR

T480

2018 T480

BUSINESS – READY, RIGHT OUT OF THE BOX

- EXTENDED I/O WITH NEW SIDE DOCKING (CS18)
- OPTIONAL MULTI-TOUCH
- OPTIONAL NVIDIA MX150 GRAPHICS
- IR CAMERA
- THINKSHUTTER CAMERA PRIVACY
- GLOBAL LTE-A (CAT9)
- UP TO 27HRS BATTERY LIFE*
- UP TO WQHD PANEL RESOLUTION

Lenovo
ThinkPad

NEW REVISION OF THE CORPORATE STANDARD

*MM14 measurement

2018 ThinkPad T480

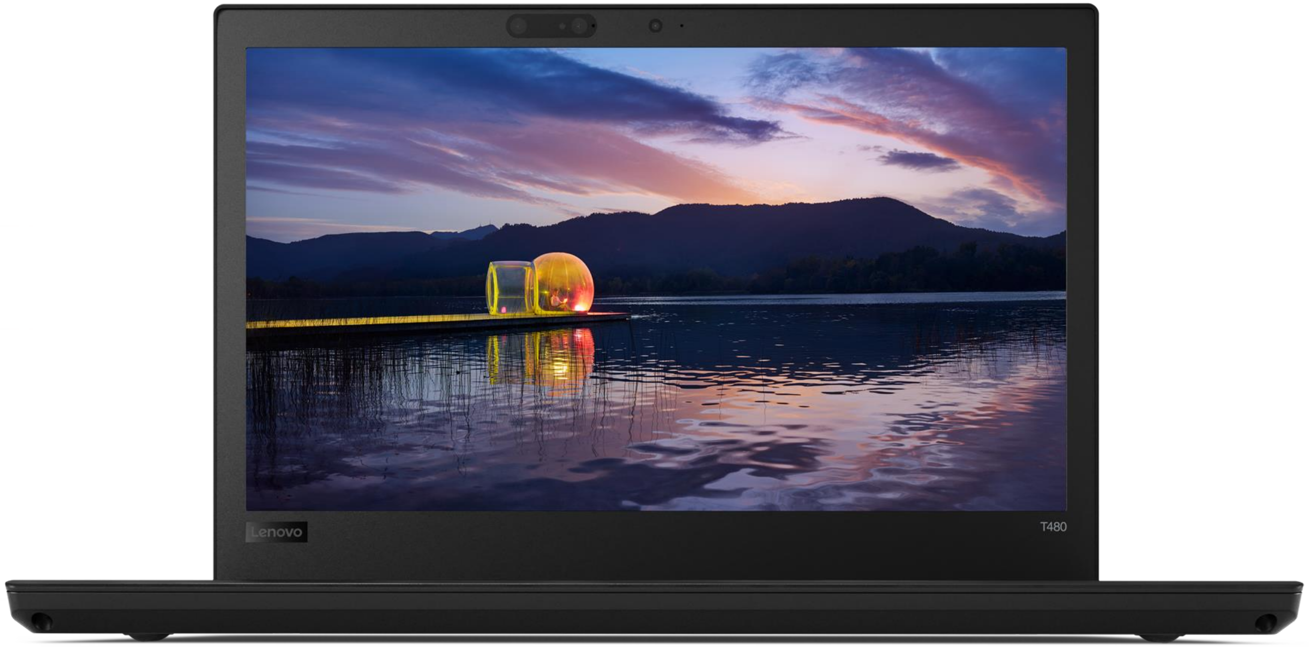
WHAT'S NEW

STUNNING DISPLAY AND AUDIO EXPERIENCE

- WQHD IPS Panel
- Dolby Premium certified

IMPROVED PERFORMACE

- Two times faster GPU
- Global LTE CAT9 Card
- Dual USB Type C (1xThunderbolt)
- USB Type C DC-IN
- Side Mechanical Docking (CS18)
- New 8th Gen Core i QC Processors



ENHANCED SECURITY & PRIVACY

- ThinkShutter on HD Camera
- Windows Hello w/ Touch FPR & IR Camera
- Glance by Mirametrics*

*What is Lenovo Glance by Mirametrix: https://1drv.ms/v/s!AnaEW-aEeAxgyHfPwGtRXsqG9xyj

2018 ThinkPad T480

GEN TO GEN

	T470	T480
Dimension	336.6 x 232.5 x 19.95 mm	336.6 x 232.5 x 19.95 mm
Weight	1.58kg w/ Mg A Cover; 1.65kg w/ PPS A Cover	1.58kg w/ Mg A Cover; 1.65kg w/ PPS A Cover
Screen Resolution	14”: HD TN, FHD IPS, FHD IPS Touch (on cell)	14”: HD TN, FHD IPS LCLW Touch (on cell), WQHD IPS panel
CPU	SKY: i5/i7 ; KBL: i3, i5, i7	KBL U: i3, i5; KBL R: i5, i7
Graphics	Nvidia N16-GTR	Nvidia Geforce MX150 w/ 2GB GDDR5
Memory	32GB(2DIMM) DDR4	32GB(2DIMM) DDR4
Storage	PCIe, SATA SSDs & SATA HDD, Intel Optane	PCIe, SATA SSDs & SATA HDD, Intel Optane
Camera	HD / Without privacy shutter	HD with ThinkShutter
Battery (Size / Life)	Dual Battery (49Wh) 10.7hrs	Dual Battery (49Wh) 13.9hrs, Extended battery (96Whr) 30.3hrs
Rapid Charge – 80%	No	No
Keyboard	Backlight	Backlight
Pen	N/A	N/A
Docking	CS13, Type C Cable Dock, USB 3.0 Dock	CS18, Type C Cable Dock, USB 3.0 Dock
Ethernet	RJ45 / AC 2x2 / Cat6 w/ micro SIM	RJ45 / AC 2x2 / Yes Cat 9 and Cat 6 w/ nano SIM
I/O Ports	3x USB-A, 1x USB-C (Thunderbolt), Audio, SD card	2x USB-A, 2x USB-C (1xThunderbolt), Audio, SD card
Video Ports	HDMI, USB-C	HDMI, USB-C
Wireless Communication	NFC/ SCR/ IR CAM/ WiGig	NFC/ SCR/ IR CAM/ w/o WiGig
Biometric / Security	Touch FPR, IR Camera, dTPM 2.0	Touch FPR, IR Camera, ThinkShutter, dTPM 2.0

T480s

2018 ThinkPad T480s

WHAT'S NEW

ON THE ROAD / TRAVEL

- 1.3kg & 18.45mm
- Up to 15.6 hrs battery life with Rapid Charge
- 57Whr vs 49Whr on T470s

IMPROVED DESIGN & FUNCTIONALITY

- New 8th Gen Core i QC Processors
- Global LTE CAT9 Card
- Dual USB-C (1x Thunderbolt)
- USB Type C DC-IN
- Side Mechanical Docking (CS18)

ENHANCED SECURITY & PRIVACY

- ThinkShutter on HD Camera
- Windows Hello w/ Touch FPR & IR Camera
- Glance by Mirametrics

Hello Miranda Vance
2:30
Friday, July 29
Project sync with Marc
Fourth Coffee
3:30 PM
ThinkPad
T480s

2018 ThinkPad T480s

GEN TO GEN

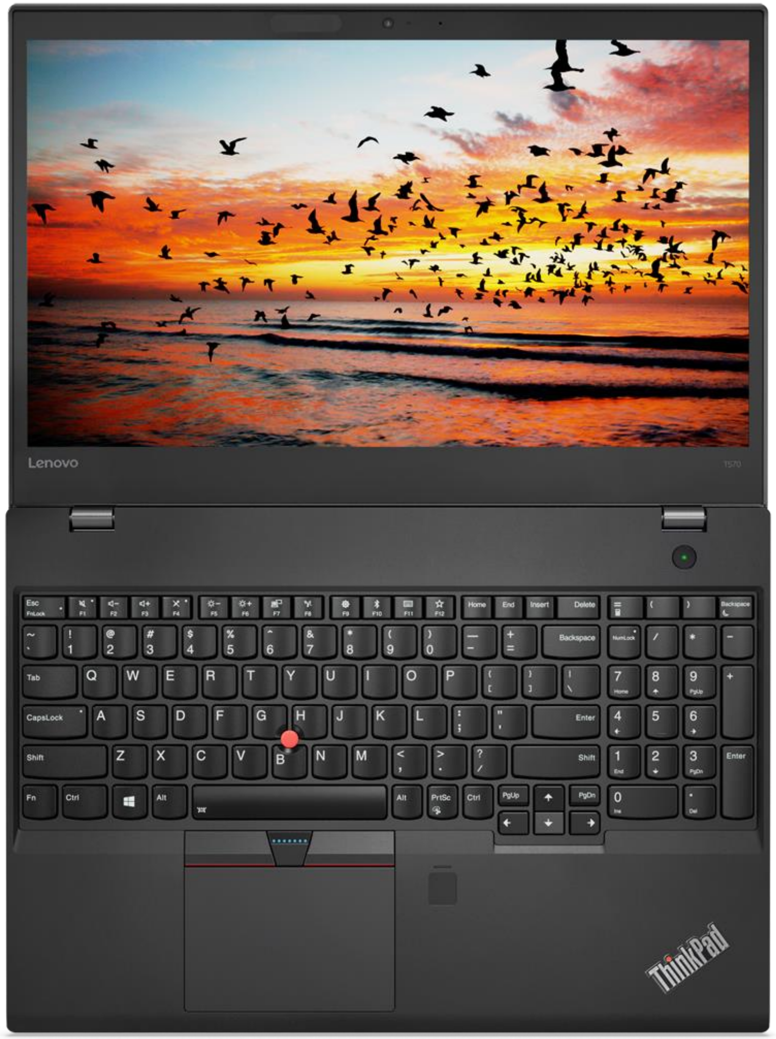
	T470s	T480s
Dimension	331mm x 226.8mm x 18.8mm	331mm x 226.8 mm x ***18.45mm***
Weight	1.36kg	***1.32kg***
Screen Size & Resolution	14”: FHD IPS, FHD IPS Touch, WQHD IPS	14”: FHD IPS, FHD IPS Touch, WQHD IPS
CPU	SKY: i5/i7 vPro; KBL: i5/i7, i5/i7 vPro	KBL: i5 vPro; ***KBL R: i5/i7, i5/i7 vPro***
Graphics	Intel HD 620	Intel UHD 620
Memory	DDR4 (2133Mhz): Up to 24GB (4,8,16GB DIMM + 4/8GB down)	DDR4 (2133Mhz): Up to 24GB (4,8,16GB DIMM + 4/8GB down)
Storage	Up to 1TB PCIe SSD	Up to 1TB PCIe SSD
Camera	HD	HD w/***ThinkShutter, HD + IR***
Battery (Size / Life)	49Whr / Up to 12.5hrs (Dual Battery)	***57Whr / Up to 15.6hrs (Single Battery)***
Rapid Charge – 80%	No	***Yes (w\ 65W AC)***
Keyboard	Backlight	Backlight w\ ***White LEDs***
Pen	No	No
Docking	Thunderbolt 3, USB3.0, WiGig, Mechanical (CS13)	Thunderbolt 3, USB3.0, ***Side Mechanical (CS18)***
Ethernet	RJ45	***Trapdoor RJ45***
I/O Ports	3x USB-A, 1x USB C (Thunderbolt), SD Card	***2x USB-A***, ***2x USB-C***, (1x Thunderbolt), SD Card
Video Ports / Audio	HDMI, Thunderbolt 3, Audio Dolby Advanced	HDMI, Thunderbolt 3, ***Audio Dolby Premium***
Wireless Communication	WLAN, LTE CAT6 & EU CAT4, NFC	WLAN, ***LTE CAT9 & EU CAT6***, NFC
Biometric / Security	Touch FPR, SCR, dTPM 2.0	Touch FPR, SCR, ***IR Camera, ThinkShutter***, dTPM 2.0

T580

2018 T580

BUSINESS – READY, RIGHT OUT OF THE BOX

- EXTENSIVE I/O WITH NEW SIDE DOCKING (CS18)
- UP TO UHD PANEL RESOLUTION AND OPTIONAL MULTI-TOUCH DISPLAY
- OPTIONAL DISCRETE GRAPHICS
- IR CAMERA
- THINKSHUTTER CAMERA PRIVACY
- EXTREME ALL DAY BATTERY LIFE UP TO 26HRS
- DOLBY PREMIUM AUDIO EXPERIENCE
- DUAL STORAGE EXPANDABILITY
- GLOBAL LTE-A (CAT9)



PRODUCTIVE WORKER'S DREAM MACHINE

*MM14 measurement

2018 ThinkPad T580

WHAT’S NEW

STUNNING DISPLAY AND AUDIO EXPERIENCE

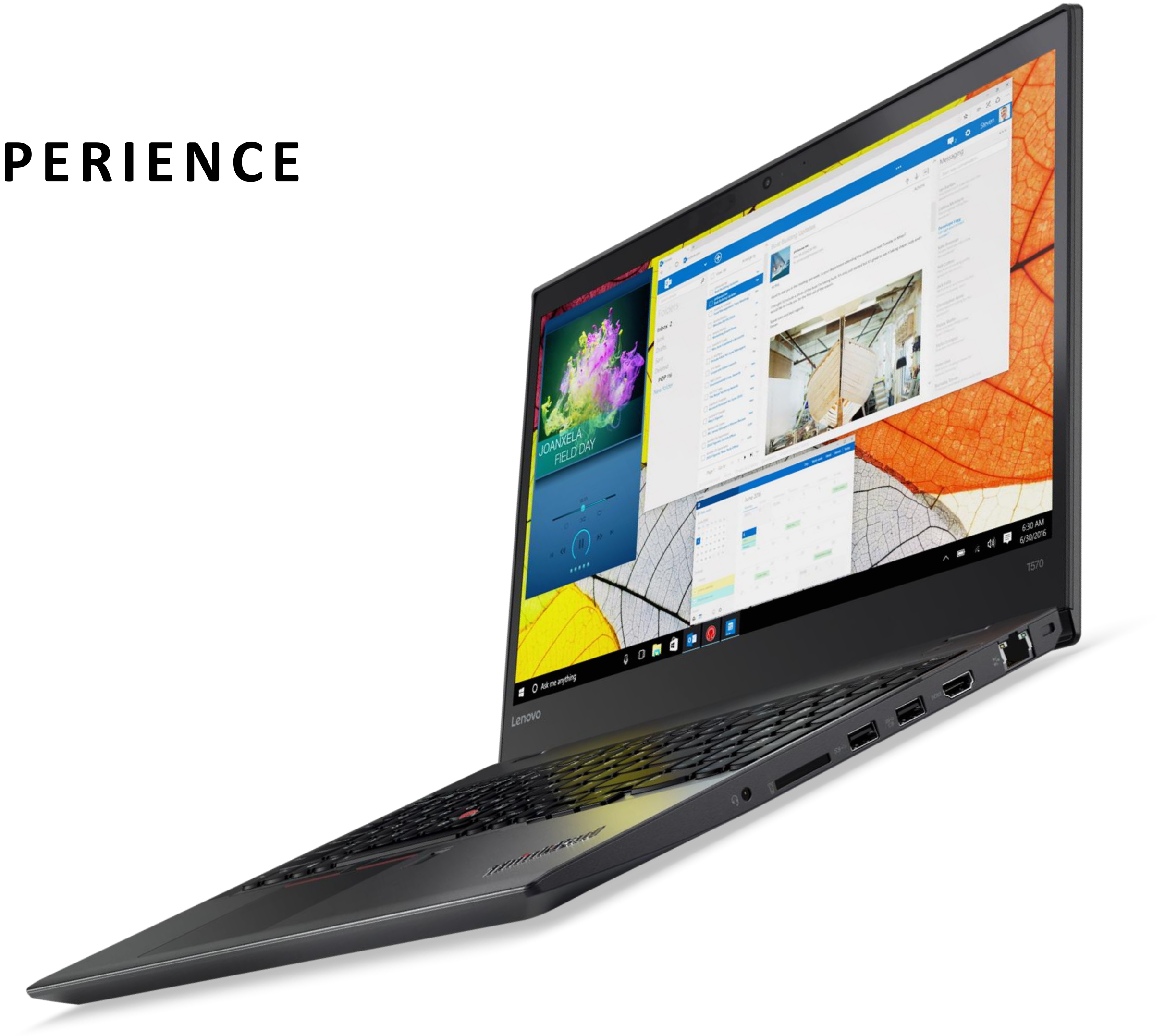
- Up to UHD IPS Panel
- Dolby Premium certified

IMPROVED PERFORMANCE

- Two times faster GPU
- Global LTE CAT9 Card
- Dual USB Type C (1xTBT3)
- USB Type C DC-IN
- Side Mechanical Docking (CS18)
- New 8th Gen Core i QC Processors

ENHANCED SECURITY & PRIVACY

- ThinkShutter on HD Camera
- Windows Hello w/ Touch FPR & IR Camera
- Glance by Mirametrics*



*What is Lenovo Glance by Mirametrix: https://1drv.ms/v/s!AnaEW-aEeAxgyHfPwGtRXsqG9xyj

2018 ThinkPad T580

GEN TO GEN

	T570	**T580**
Dimension	365.8 x 252.8 x 19.95-20.2 mm	365.8 x 252.8 x 19.95-20.2 mm
Weight	1.97kg	1.97kg
Screen Size & Resolution	15”: HD TN, FHD IPS, FHD IPS LCLW Touch, UHD IPS	15”: FHD IPS, FHD IPS LCLW Touch, UHD IPS
CPU	SKY: i5/i7 vPro; KBL: i5/i7, i5/i7 vPro	KBL: i5 vPro; ***KBL R: i5/i7, i5/ i7 vPro***
Graphics	Nvidia GeForce 940MX w/ 2GB GDDR5	Nvidia Geforce MX150 w/ 2GB GDDR5
Memory	32GB (2 DIMM) 2133MHz DDR4	32GB (2 DIMM) 2400MHz DDR4
Storage	Up to 1TB PCIe SSD, 2TB HDD	Up to 1TB, PCIe SSD, 2TB HDD
Camera	HD; HD + IR	HD w/ ***privacy shutter,*** HD + IR
Battery (Size / Life)	Dual Battery (32W+72W) / Up to 27 hours	Dual Battery (32W+24) 13.8 - (32W+72W) / Up to 27 hours
Rapid Charge – 80%	No	No
Keyboard	Backlight	Backlight w/ ***White LEDs***
Pen	N/A	N/A
Docking	CS13, Thunderbolt 3, USB 3.0	***Side Mechanical (CS18)***, Thunderbolt 3, USB 3.0
Ethernet	RJ45	RJ45
I/O Ports	3x USB 3.0, 1x USB-C (TBT3), Audio, SD Card	***2x USB 3.0, 2x USB-C (1x TBT3)***, Audio, SD Card
Video Ports	HDMI, Thunderbolt3	HDMI, Thunderbolt3
Wireless Communication	NFC, WLAN, WiGig, LTE CAT6 & EU CAT4 w/ micro SIM	NFC, WLAN/, ***LTE w/ nano SIM***
Biometric / Security	Touch FPR, SCR, IR Camera, dTPM 2.0	Touch FPR, SCR, IR Camera, ***ThinkShutter***, dTPM 2.0

X380 Yoga

2018 X380 Yoga

BUSINESS-CLASS YOGA FUNCTIONALITY

- YOGA FORM FACTOR W/ INTEGRATED PEN
- IR CAMERA
- RAPID CHARGE BATTERY

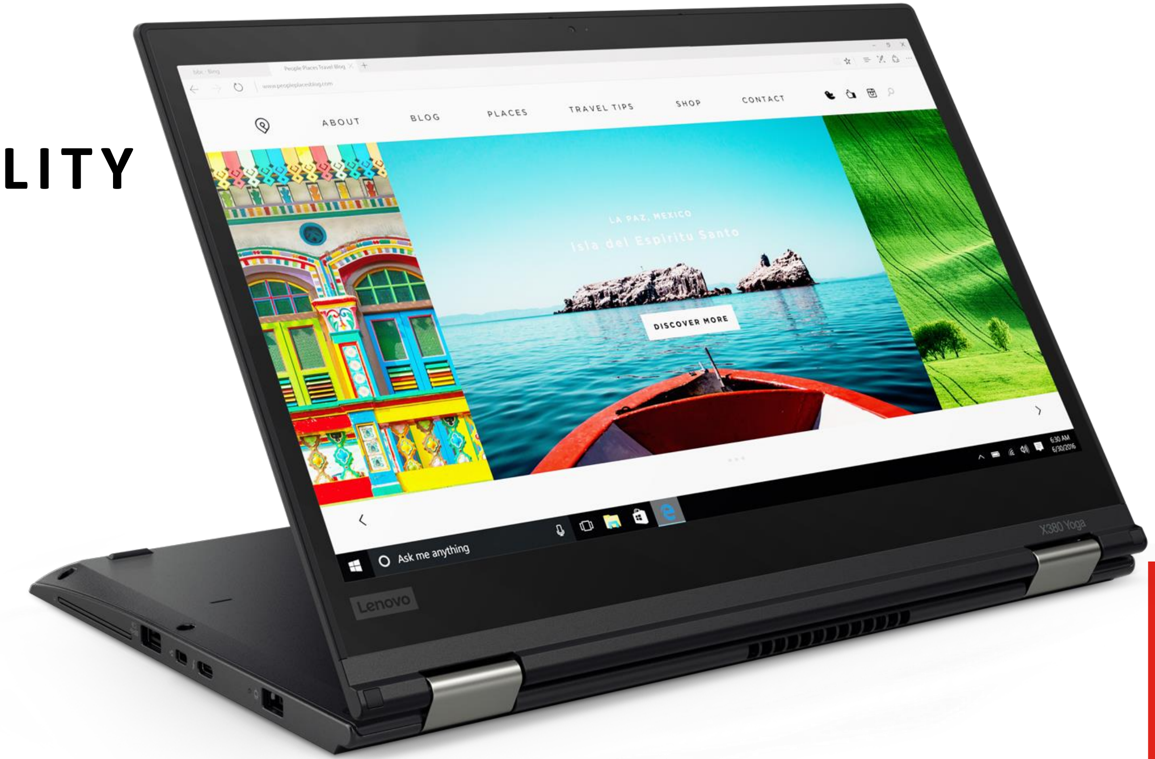
MODERN VERSATILITY

2018 ThinkPad X380 Yoga

WHAT’S NEW

VERSATILE

- Multiple modes with on-board pen
- Enhanced Active Pen Pro Experience
- FHD IPS display with Touch



BALANCED PERFORMANCE AND MOBILITY

- Quad Core Kabylake-R CPUs
- EU LTE CAT6 CARD (Except NA / ANZ)
- Windows 10 Touch experience.

SECURITY

- Windows Hello w/ FPR and IR Camera
- Glance by Mirametrics

2018 X380 Yoga

GEN TO GEN

	Yoga 370	**Yoga 380**
Dimension	313.5mm x 222.2mm x 18.2mm	313.5mm x 222.2mm x 18.2mm
Weight	1.39kg	1.39kg
Screen Size & Resolution	13.3”: FHD IPS Touch	13.3”: FHD IPS Touch
CPU	KBL: i3/i5/i7, i5/i7 vPro	KBL: i3, i5 vPro; ***KBL-R: i5/i7, i5/i7 vPro***
Graphics	Intel HD 620	Intel HD 620
Memory	DDR4 (2133Mhz): 16GB (4,8GB DIMM + 4/8GB down)	DDR4 (2133Mhz): 16GB (4,8,16GB down)
Storage	Up to 1TB PCIe SSD	Up to 1TB PCIe SSD
Camera	HD	HD, ***HD + IR Camera***
Battery (Size / Life)	51Whr / Up to 12.5hrs	51Whr / Up to 13.6hrs
Rapid Charge – 80%	Yes (w\ 65W AC)	Yes (w\ 65W AC)
Keyboard	Backlight	Backlight w/ ***White LEDs***
Pen	Yes	Yes
Docking	Thunderbolt 3, USB3.0, WiGig	Thunderbolt 3, USB3.0
Ethernet	Via Native Ethernet Dongle	Via Native Ethernet Dongle
I/O Ports	2x USB 3.0, 1x Thunderbolt 3	2x USB-A 3.0, 1x Thunderbolt 3
Video Ports / Audio	HDMI, Thunderbolt 3, Dolby Premium Audio	HDMI, Thunderbolt3, Dolby Premium Audio
Wireless Communication	WLAN, LTE CAT6, NFC	WLAN, EU LTE CAT6, NFC
Biometric / Security	Touch FPR, SCR, dTPM 2.0	Touch FPR, SCR, ***IR Camera***, dTPM 2.0

L380 and L380 yoga

2018 L380 and L380 YOGA

PRODUCTIVITY ON THE GO

- NEW YOGA FORM FACTOR W/ INTEGRATED PEN
- OPTIONAL WORLD-FACING AND IR CAMERAS ON YOGA
- OPTIONAL MULTI-TOUCH DISPLAY
- RAPID CHARGE

PRODUCTIVITY DESIGN TO MOVE

2018 ThinkPad L380 and L380 Yoga

WHAT’S NEW

BALANCED MOBILITY & PERFORMANCE

NEW Yoga form factor with Integrated Pen

New 8th Gen Core i QC Processors

13.3” FHD IPS Touch starting at 1.46kg

Enhanced Active Pen Pro experience

ESSENTIAL CONNECTIVITY

Dual Type-C, HDMI, Mini RJ-45

Touch FPR， NFC

Windows Hello w/ Optional World-facing and IR cameras on Yoga

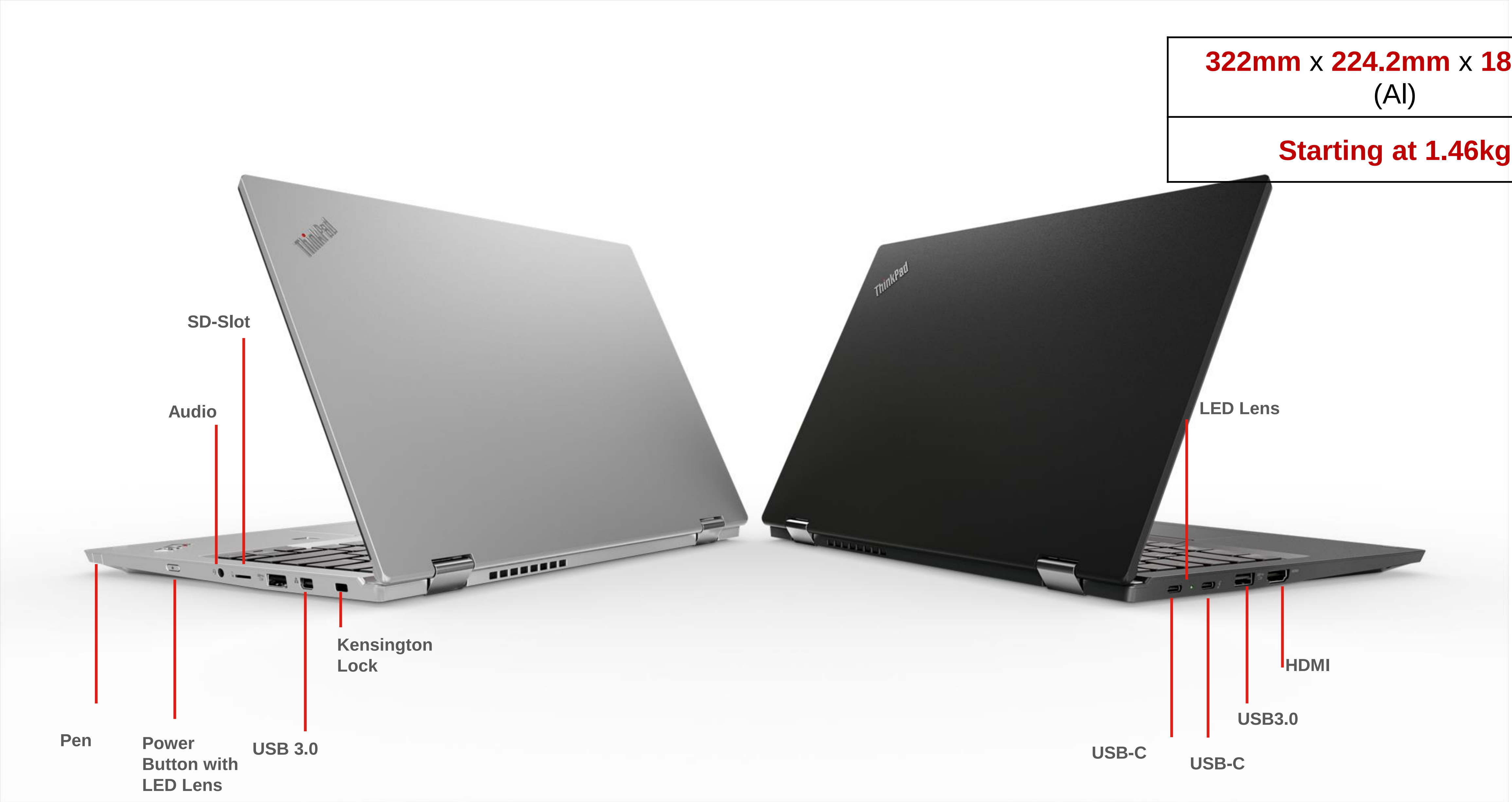
ALL DAY PERFORMANCE

Up to 14 hours battery life

Rapid Charge

L380 Yoga Mechanical Design

322mm x 224.2mm x 18.8mm (Al)
Starting at 1.46kg


SD-Slot
Audio
Pen
Power Button with LED Lens
USB 3.0
Kensington Lock
LED Lens
HDMI
USB3.0
USB-C
USB-C

2018 ThinkPad L380

GEN TO GEN

	ThinkPad 13 Gen 2	**ThinkPad L380**
Dimension	322.4 x 224.8 x 19.1 (Al) / 19.8 (ABS)	322 x 224.2 x 18.8 (Al)
Weight	1.44kg	1.46kg
Screen Size & Resolution	13.3”: HD TN, FHD IPS, FHD IPS Touch	13.3”: HD TN, FHD IPS, FHD IPS Touch
CPU	KBL: Celeron/i3/i5/i7, i5 Vpro	KBL: Celeron/i3; KBL R: i5/i7, i5 Vpro
Graphics	Intel HD 620	Intel UHD 620
Memory	DDR4: 4GB, 8GB, 16GB, 32GB; 2 DIMM	DDR4: 4GB, 8GB, 16GB, 32GB; 2 DIMM
Storage	Up to 512GB PCIe SSD	Up to 512GB PCIe SSD
Camera	720p HD	720p HD
Battery (Size / Life)	42Whr / Up to 11 hrs	45 Whr / Up to 16.1hrs
Rapid Charge – 80%	No	Yes (w\ 65W AC)
Keyboard	Standard and Backlit KBD (optional)	Standard and Backlit KBD (optional) w\ white LED
Pen	N/A	N/A
Docking	OneLink+ / USB-C / USB-A	USB-A / USB-C
Ethernet	Via OneLink+ dongle	Via native ethernet dongle
I/O Ports	3x USB-A, 1x USB-C	2x USB-A, 2x USB-C
Video Ports	HDMI	HDMI
Wireless Communication	WLAN	WLAN, NFC
Biometric / Security	Swipe FPR, dTPM 2.0	Touch FPR, dTPM 2.0

2018 ThinkPad 13 Yoga

GEN TO GEN

	ThinkPad 13 Gen 2	L380 Yoga
Dimension	322.4 x 224.8 x 19.1 (Al) / 19.8 (ABS)	322 x 224.2 x 18.8 (Al)
Weight	1.44kg	1.56kg
Screen Size & Resolution	13.3”: HD TN, FHD IPS, FHD IPS Touch	13.3”: FHD IPS Touch
CPU	KBL: Celeron/i3/i5/i7, i5 Vpro	KBL: Celeron/i3; KBL R: i5/i7, i5 Vpro
Graphics	Intel HD 620	Intel HD 620
Memory	DDR4: 4GB, 8GB, 16GB, 32GB; 2 DIMM	DDR4: 4GB, 8GB, 16GB, 32GB; 2 DIMM
Storage	Up to 512GB PCIe SSD	Up to 512GB PCIe SSD
Camera	HD	HD, HD+ IR, World Facing Camera
Battery (Size / Life)	42Whr / Up to 11 hrs	45Whr / Up to 12.5hrs
Rapid Charge – 80%	No	Yes (w\ 65W AC)
Keyboard	Standard and Backlit KBD (optional)	Standard and Backlit KBD (optional) w\ white LED
Pen	N/A	YES-Garaged Pen
Docking	OneLink+ / Type C / USB 3.0	USB3.0 / Type C
Ethernet	Via OneLink+ dongle	Via native ethernet dongle
I/O Ports	3x USB-A, 1x USB-C	2x USB-A, 2x USB-C
Video Ports	HDMI	HDMI
Wireless Communication	WLAN	WLAN, NFC
Biometric / Security	Swipe FPR, dTPM 2.0	Touch FPR, dTPM 2.0

L480

2018 ThinkPad L480

VERSATILE BUSINESS MACHINE

- FULL REDESIGN – 13% LIGHTER & 8% THINNER (1.68KG & 22MM)
- OPTIONAL MULTI-TOUCH DISPLAY
- EXTENSIVE I/O WITH NEW SIDE DOCKING (CS18)
- OPTIONAL DISCRETE GRAPHICS
- IR CAMERA
- RAPID CHARGE
- GLOBAL LTE-A

Lenovo
L480
ThinkPad

FEATURE. FUNCTION. BALANCE.

2018 ThinkPad L480

WHAT’S NEW

BALANCE OF FEATURE & FUNCTION

- 14” FHD IPS Touch display
- New Design - Thinner and Lighter... 2mm thinner and 340g lighter!
- Side Mechanical Docking (CS18)

IMPROVED PERFORMANCE

- NEW Discrete AMD Graphics
- New 8th Gen Core i QC Processors
- Up to 12hrs of Battery Life w\ Rapid Charge
- Optional Backlit KBD

FULLY CONNECTED

- Dual USB-C, 2x USB-A, HDMI
- NFC
- Windows Hello w/ Touch FPR & IR Camera
- Global LTE

2018 ThinkPad L480

GEN TO GEN

	L470	L480
Dimension	339 x 235 x 24.3 mm	335 x 235 x 22 mm
Weight	2.02 kg	1.68 kg (340g lighter)
Screen Size & Resolution	14”: HD TN, FHD IPS	14” : HD TN, FHD IPS, FHD IPS Touch
CPU	SKL: Celeron/i3/i5/i7; KBL: Cele/ i3/i5/i7, i5/i7 vPro	KBL: Celeron/i3/i5; KBL R: i5/i7, i5/i7 vPro
Graphics	Intel HD 620, AMD R16M-M1-30	Intel UHD 620, AMD Radeon 530
Memory	DDR4: 4GB, 8GB, 16GB, 32GB; 2 DIMM	DDR4: 4GB, 8GB, 16GB, 32GB; 2 DIMM
Storage	Up to 2TB HDD; Up to 512GB PCIe SSD	Up to 2TB HDD; Up to 512GB PCIe SSD
Camera	HD	HD, HD + IR
Battery (Size / Life)	45Whr / Up to 11 hrs	45Whr / Up to 12 hrs
Rapid Charge – 80%	No	Yes (w\ 65W AC)
Keyboard	Standard	Standard and Backlit KBD (optional) w\ white LEDs
Pen	No	No
Docking	Mechanical (CS13)	Mechanical Side docking (CS18)
Ethernet	RJ 45	RJ 45
I/O Ports	3x USB-A, SD	2x USB-A, 2x USB-C, Micro SD
Video Ports	VGA, mDP	HDMI
Wireless Communication	WLAN, LTE CAT6 & EU CAT4	WLAN, LTE CAT9 & EU CAT6, NFC
Biometric / Security	Swipe FPR; SCR	Touch FPR, IR Camera, SCR

L580

2018 ThinkPad L580

Versatile Business machine

- FULL REDESIGN – 15% LIGHTER & 19% THINNER (2KG & 22MM)
- EXTENSIVE I/O WITH NEW SIDE DOCKING (CS18)
- OPTIONAL DISCRETE GRAPHICS
- RAPID CHARGE
- GLOBAL LTE-A

FEATURE. FUNCTION. BALANCE

2018 ThinkPad L580

WHAT'S NEW

BALANCE OF PRODUCTIVITY & MOBILITY

- 15” FHD IPS display
- New Design… 5mm thinner and 380g lighter!
- Side Mechanical Docking (CS18)

IMPROVED PERFORMANCE

- NEW Discrete AMD Graphics
- New 8th Gen Core i QC Processors
- Up to 12 hrs of Battery Life w\ Rapid Charge
- Optional Backlit KBD

FULLY CONNECTED

- 2x USB-C, 2x USB-A, and HDMI
- NFC
- Windows Hello w/ Touch FPR & IR Camera
- Global LTE

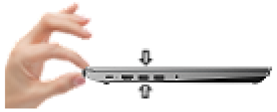
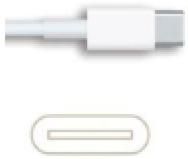
2018 ThinkPad L580

GEN TO GEN

	L570	**L580**
Dimension	377 x 255 x 27.6 mm	***376.5 x 254.5 x 22.95mm***
Weight	2.38 kg	***2.0 kg (-380g)***
Screen Size & Resolution	15” : HD TN, FHD IPS	15” : HD TN, FHD IPS
CPU	SKL: Cele/i3/i5/i7, KBL: Cele/ i3/i5/i7, i5/i7 vPro	KBL: Cele/i3, i5 vPro, ***KBL R: i5/i7, i5/i7 vPro***
Graphics	Intel HD 620	Intel HD 620, ***AMD Radeon 530***
Memory	DDR4: 4GB, 8GB, 16GB, 32GB; 2 DIMM	DDR4: 4GB, 8GB, 16GB, 32GB; 2 DIMM
Storage	Up to 1TB HDD, Up to 512GB PCIe SSD	Up to 2TB HDD, Up to 512GB PCIe SSD
Camera	HD	HD
Battery (Size / Life)	48Whr / Up to 11hrs	***45Whr / Up to 11hrs***
Rapid Charge – 80%	No	***Yes (w\ 65W AC)***
Keyboard	Standard KBD	Standard and ***Backlit KBD (optional) w\ white LEDs***
Pen	No	No
Docking	Mechanical (CS13) – Bottom	***Mechanical Side (CS18)***
Ethernet	RJ 45	RJ 45
I/O Ports	4x USB-A, ODD, Express Card, SD	2x USB-A, 2x USB-C, VGA, SD
Video Ports	VGA, mDP	HDMI, USB-C
Wireless Communication	WLAN, LTE CAT6 & EU CAT4	WLAN, ***LTE CAT9 & EU CAT6, NFC***
Biometric / Security	Swipe FPR, SCR	***Touch FPR***, SCR

E480 & E580

ThinkPad E480 & E580 Product key features

 New ID Metal A-Cover	 Narrow Bezel 14”: 14mm to 6.9mm 15”: 16mm to 9.2mm	 Thin & Slim 14”: 20.2 mm 15”: 20.7 mm	 Quad Core CPUs KBL-R / Raven Ridge (Support KBL)
 USB-C x 1	 Dual drive (M.2 2280 SSD + HDD)	 Backlit Keyboard (Optional)	 Touch FPR & Windows Hello (Optional)

New ThinkPad E Series - Stylish : Thinner & Smaller

Thinner & Smaller
19.9mm - 14”
20.7mm - 15”

14” reduce 11% from 22.4mm
15” reduce 19% from 25.4mm

GEN TO GEN COMPARISON

	E470	E480
LCD	14” HD 1366x768 220 nit Antiglare 14” FHD 1920x1080 IPS 250 nit Antiglare	14” HD 1366x768 220 nit Antiglare 14” FHD 1920x1080 IPS 250 nit Antiglare
CPU	Intel Kaby Lake U / Skylake U	Intel **Kaby Lake / Kaby Lake-R**
Graphics	Integrated Discrete – Nvidia GeForce 940MX 2GB & 920MX 2GB	Integrated Discrete – **AMD L3 RX 550 2GB**
Storage	Up to 1TB HDD Up to 256 GB SATA SSD	Up to 1TB HDD Up to 512GB PCIe SSD ,
Memory	Up to 32 GB (2 DIMM) DDR4	Up to 32 GB (2 DIMM) DDR4
ODD	None	None
USB ports	2xUSB-A 3.0; 1xUSB-A 2.0	**1xUSB-C; 3xUSB-A (2x 3.0 and 1x 2.0)**
Other I/O	HDMI,RJ45, Card reader, Audio Jack, Swipe FPR (optional)	HDMI,RJ45, Micro SD Card Slot; Combo Audio Jacks; Touch FPR(optional)
Other	720p Camera, Dual Array Mics, Bluetooth 4.1/Wifi Combo Card	720p Camera with Privacy Shutter , Dual Array Mics, Bluetooth 4.1/Wifi Combo Card
TouchPad	3+2 Button Click Pad	3+2 Button Click Pad
Keyboard	Standard	**Backlight (Optional)**
Battery Life	>9hr MM14 (45Whr)	**Up to 13** hrs MM14 (45Whr)
Dimensions	339 x 242 x 22.4(Al)/23.7(Plastic) mm	**329.3 x 242 x 19.9(Al)/21.9(Plastic) mm**
Weight	Starting at 1.87KG	Starting at **1.68KG**

GEN TO GEN COMPARISON

	E570	E580
LCD	15.6” HD 15.6” FHD TN / IPS	15.6” HD 15.6” FHD IPS
CPU	Intel Kaby Lake U / Skylake U	Intel **Kaby Lake / Kaby Lake-R**
Graphics	Integrated Discrete – Nvidia GeForce 940MX 2GB & GTX 950MX 2GB	Integrated Discrete – **AMD L3 RX 550 2GB**
Storage	Up to 1TB HDD Up to 256 GB SATA SSD	Up to 1TB HDD Up to 512GB PCIe SSD ,
Memory	Up to 32 GB (2 DIMM) DDR4	Up to 32 GB (2 DIMM) DDR4
ODD	Multi Recorder Optical Drive	None
USB ports	2xUSB-A 3.0; 1xUSB-A 2.0; 1 USB-C(Opt)	1x USB-C; 2x USB-A (3.1); 1xUSB-A (2.0);
Other I/O	VGA,HDMI,RJ45, 4 in 1 reader, Headphone/Mic 3.5mm, FPR(Opt)	VGA,HDMI,RJ45, Micro SD Card; 4 in 1 reader, Headphone/Mic 3.5mm, Touch FPR(Opt)
Other	720p Camera, JBL Speaker (Opt), Dual Array Mics, Bluetooth 4.1/Wifi Combo Card	720p Camera, JBL Speaker (Opt), Dual Array Mics, Bluetooth 4.1/Wifi Combo Card
TouchPad	3+2BCP	3+2BCP
Keyboard	Standard	**Backlight (Optional)**
Battery Life	>8hr MM14 (41Whr)	**Up to 13** hrs MM14 (45Whr)
Dimensions	379 x 261 x 23.9(AL)/25.4(Plastic)mm	**369 x 252 x 20.7(AL)**
Weight	Starting at 2.31KG	Starting at **2.13KG**

Tablet 10

Lenovo Tablet 10

BUILT FOR VERTICAL SOLUTIONS

- Gemini Lake Celeron CPUs
- Integrated 6.5mm rechargeable pen
- Keyboard with 135° Rotation Hinge and 1.8mm key travel
- Up to 9hrs of battery life
- Full size HDMI
- WWAN, NFC, 2x2 WiFi
- Wake on Lan via USB-C Dock
- Vertical Accessories:
  - IP54 Case
  - IP68 Case

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2018 Lenovo Tablet 10 What’s New

PRODUCTIVE PERFORMANCE

- Gemini Lake Celeron CPUs
- Integrated Rechargeable Pen
- Wake on Lan via USB-C Dock

COMPACT AND MOBILE

- Up to 9hrs MM14 Battery Life
- WWAN and 2x2 WiFi
- Keyboard with 135° Rotation Hinge

TOUGH AND SECURE

- IP Rated Cases for durability
- Touch FPR
- dTPM

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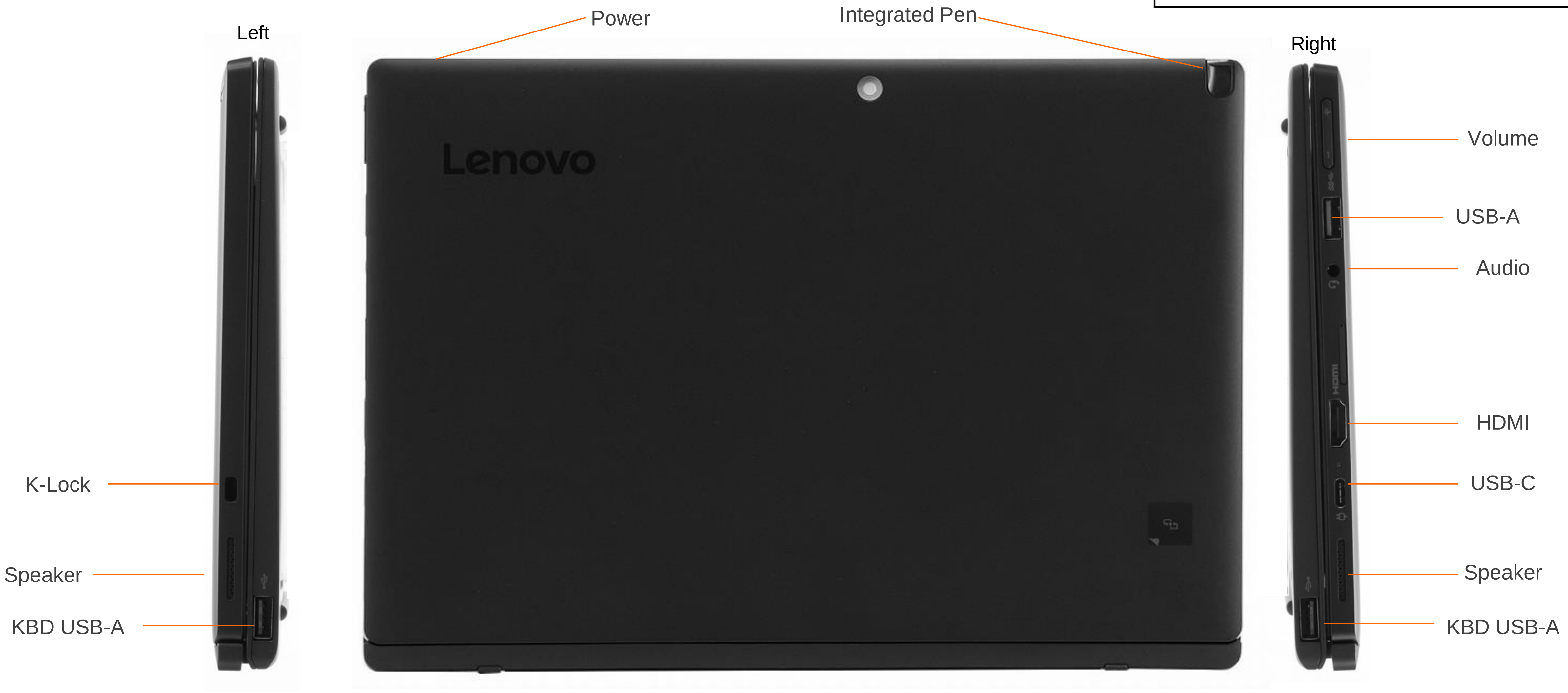
Lenovo Tablet 10 Mechanical Design

261mm x 178mm x 10.6mm
664g (1.4lbs) / 1271g (2.8lbs) w/ KB


Left
Power
Integrated Pen
Right
Volume
USB-A
Audio
K-Lock
HDMI
USB-C
Speaker
Speaker
KBD USB-A
KBD USB-A
Lenovo

2018 Lenovo Tablet 10 GEN TO GEN

	ThinkPad Tablet 10 Gen 2	**Lenovo Tablet 10**
Dimension	256.5mm x 177mm x 9.1mm	261mm x 178mm x 10.6mm
Weight	597g	664g
Screen Size & Resolution	10.1” (1920 x 1200)	10.1” HD and WUXGA (1920 x 1200)
CPU	Intel Atom Processor z8700 SoC Quad Core	GLK Celeron DC/QC CPU
Graphics	Intel HD Gen 8	Intel HD Gen 9
Memory	2GB, 4GB	2GB, 4GB, 8GB
Storage	Up to 128GB eMMC	Up to 128GB eMMC
Camera	1.2MP / 5MP	2MP / 5MP
Battery (Size / Life)	32Wh / Up to 9.5hrs MM14	38Wh / Up to 9.9hrs MM14
Rapid Charge – 80%	No	No
Keyboard	Ultrabook Keyboard, Folio Keyboard	New Keyboard with Hinge Design
Pen	Active Pen	Integrated Active Pen
Docking	USB-A Pro Dock	Universal USB-C Docking
Ethernet	Via Dongle	Via Dongle
I/O Ports	1 x USB-A, 1 x Micro HDMI, Micro SD, Audio, Micro Sim	1 x USB-A, 1 x USB-C, HDMI, Micro SD, Audio, Nano Sim
Video Ports	Micro HDMI	HDMI, USB-C
Wireless Communication	WLAN, WWAN, NFC	WLAN, WWAN, NFC
Biometric / Security	Swipe FPR, dTPM 1.2, K-Lock, SCR	Touch FPR, dTPM 2.0, K-Lock

thanks.

Different is better

Lenovo™