



ThinkPad

DOCKING SOLUTIONS

Effortlessly connect your laptop and expand your peripheral possibilities in a single connection.

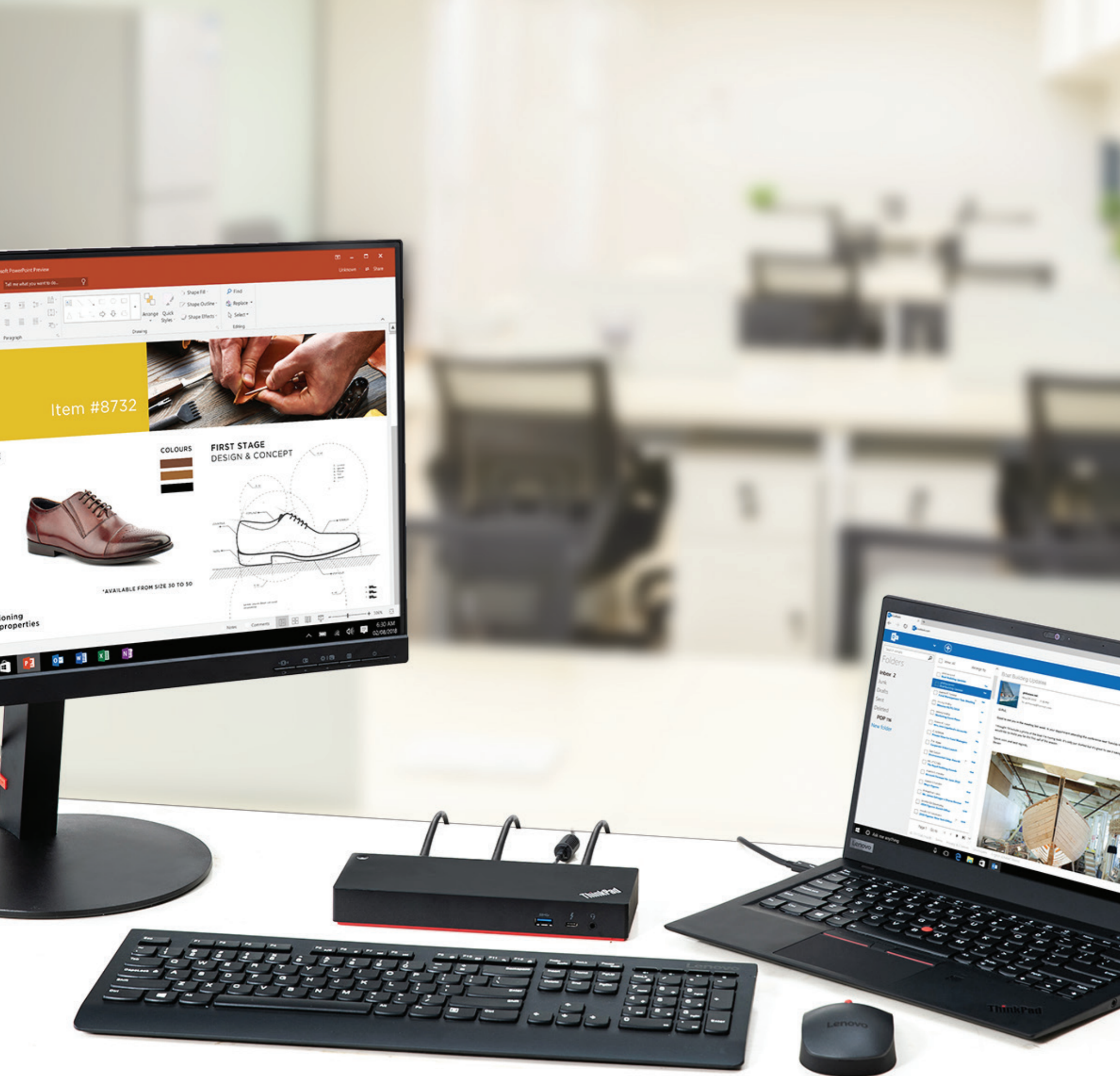


©2020 Lenovo. All rights reserved.
Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors. All images are for illustrative purposes only.
Warranty: For a copy of applicable warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC 27709, Attn. Dept. ZPYA. Lenovo makes no representation or warranty regarding third-party products or services.
Trademarks: The following are registered trademarks or trademarks of Lenovo: Lenovo, the Lenovo logo and ThinkPad. Ultrabook is a trademark of Intel Corporation in the U.S. and other countries. Other company, product and service names may be trademarks or service marks of others.



TABLE OF CONTENTS

- 2 Why Lenovo Docking Stations
- 4 ThinkPad Thunderbolt™ Docking Stations
- 8 ThinkPad USB-C and Hybrid Docking Stations
- 12 ThinkPad Mechanical Docking Stations (2018)
- 16 Lenovo USB-C Hubs
- 20 Docking Accessories



WHY LENOVO DOCKING STATIONS

Lenovo docking stations are productivity-powerhouses designed to upgrade the potential of any laptop. With it, you can enjoy multiple high-resolution displays, charge your laptop or mobile devices, connect USB peripherals, transfer data, and much more. Whether at your office or at home, a Lenovo docking station will take you to the next level.

UNIVERSAL COMPATIBILITY



At Lenovo, we understand that most businesses use a variety of brands to meet their ever-changing technology needs. To better serve our customers, Lenovo cable docks are designed to be compatible with both Lenovo laptops, as well as laptops from HP, Dell, and Apple*. Regardless of brand, Lenovo docking station will expand the data, power, and video capabilities of laptops. Those using ThinkPad laptops will benefit from advanced IT management features such as PXE boot, WOL, and MAC address pass-through.

THINKPAD QUALITY ASSURANCE



Lenovo customers have come to expect nothing less than quality and reliability. To meet those expectations, all docking stations must pass rigorous ThinkPad quality assurance tests. Be it 7,000+ cable bends, 48-hour extreme temperature tests, or 100's of hot ejects, those who fail don't leave the factory floor. It's this ruthless commitment to our customers that ensures Lenovo products consistently satisfy.

SUSTAINABLE DESIGN



In accordance with Lenovo's sustainability efforts, we have added several docking stations to our portfolio that feature recycled materials. Of the plastics used, approximately 25% are Post-Consumer Recycled (PCC). By using recycled materials, we drastically reduce waste and improve the sustainability of Lenovo's operations.

* Lenovo USB-C and Thunderbolt™ Docks function with laptops that support industry-standard USB-C Alt-Mode or Thunderbolt™ protocols through their Type-C™ port. Users may experience reduced performance when not used with matching protocol.
 • Lenovo USB-C and Thunderbolt™ Docks support additional features, such as MAC address pass-through, WOL, and mirrored power button on most Lenovo ThinkPad laptops. Still, such features may not be available on certain Lenovo laptops or non-Lenovo branded laptop systems.



THINKPAD THUNDERBOLT™ DOCKING STATIONS

Maximize your productivity with Lenovo ThinkPad Thunderbolt™ Docks. Powerful, versatile, and incredibly fast! Expand your horizons with multiple 4K displays, and transfer files at record speed. It's everything you need to enhance your creativity and efficiency today.

LENOVO THUNDERBOLT™ 3 ESSENTIAL DOCK



The Lenovo Thunderbolt™ 3 Essential Dock packs the performance of a premium dock, at a price that all can afford. Powered by Intel's Thunderbolt™ 3 Titan Ridge technology, it's designed to boost your productivity with dual 4K displays, blazing-fast 10 Gbps data rates, and a range of optimized ports.

THINKPAD THUNDERBOLT™ 3 DOCK GEN 2

The ThinkPad Thunderbolt™ 3 Dock Gen 2 allows you to instantly expand your horizons with multiple 4K displays, handle heavy graphics and video editing with ease, and transfer files at record speed.



THINKPAD THUNDERBOLT™ 3 WORKSTATION DOCK GEN 2



Unlock more ways to be productive with the new generation of workstation dock. The ThinkPad Thunderbolt™ 3 Workstation Dock Gen 2 turns your ThinkPad Mobile Workstation into a productivity powerhouse, adding support for four 4K displays, optimized one cable charging, a slew of expansion ports, and advanced network manageability features.

THINKPAD THUNDERBOLT™ DOCKING STATION COMPARISON TABLE

	Lenovo Thunderbolt™ 3 Essential Dock	ThinkPad Thunderbolt™ 3 Dock Gen 2	ThinkPad Thunderbolt™ 3 Workstation Dock Gen 2
Part Number (PN)	40AV0135xx	40AN0135xx	40ANY230xx
Connectivity	0.7 m Thunderbolt™ 3 cable	0.7 m Thunderbolt™ 3 cable	0.7 m Docking split cable
Video Ports	1 x DisplayPort™ 1 x HDMI™	2 x DisplayPort™ 2 x HDMI™ 1 x Thunderbolt™ 3 Downstream Port (video/data)	2 x DisplayPort™ 2 x HDMI™ 1 x Thunderbolt™ 3 Downstream (video/data)
Maximum Video Output ¹	2 x 4K @ 60 Hz	2 x 4K @ 60 Hz or 3 x 1080p	3 x 4K @ 30 Hz or 4 external displays ²
Maximum Number of Displays	2	3	4 ²
USB Ports	2 x USB 3.0 ³ (5 Gbps) 2 x USB-C (10 Gbps)	5 x USB 3.1 ³ (10 Gbps; 1 x always-on charging)	5 x USB 3.1 Gen 2 ³ (10 Gbps; 1 x always-on charging)
Ethernet (RJ45)	Gigabit		
Audio	Stereo/Microphone combo		
Power Adapter Inside the Box	135W	135W	230W
Max. Power for Laptop Charging	65W	65W	170W
Power Button to Control System Power	N/A	Selected ThinkPad and mobile workstations	Selected ThinkPad and mobile workstations
PXE Boot	Selected ThinkPad laptops	Selected ThinkPad and mobile workstations	Selected ThinkPad and mobile workstations
MAC Address Pass-through	Selected ThinkPad laptops	Selected ThinkPad and mobile workstations	Selected ThinkPad and mobile workstations
Wake-on-LAN (Sleep, Hibernation and Power-off mode)	Selected ThinkPad laptops	Selected ThinkPad and mobile workstations	Selected ThinkPad and mobile workstations
Warranty	1 year	3 years	3 years
Qualified Systems ⁴	2020/2019 selected ThinkPad Thunderbolt™ and USB-C enabled laptops	2020/2019/2018 selected ThinkPad Thunderbolt™ and USB-C enabled laptops	2020/2019/2018 selected ThinkPad and mobile workstations

¹ Actual display resolution is subject to your system's video output capability.
² Maximum monitor support: 4 external display with MWS. (The real external monitor limit depends on your system's graphics capability.)
³ Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: 5 Gbit/s for USB 3.1 Gen 1; 10 Gbit/s for USB 3.1 Gen 2; and 20 Gbit/s for USB 3.2.
⁴ For the latest compatibility information, please check the Accessories Compatibility Guide on www.lenovo.com/accessoriesguide, or visit: accessorysmartfind.lenovo.com

- Lenovo USB-C and Thunderbolt™ Docks function with laptops that support industry-standard USB-C Alt-Mode or Thunderbolt™ protocols through their Type-C™ port. Users may experience reduced performance when not used with the matching protocol.
- Lenovo USB-C and Thunderbolt™ Docks support additional features, such as MAC address pass-through, WOL, and mirrored power button on most Lenovo ThinkPad laptops. Still, such features may not be available on all other Lenovo laptops or non-Lenovo branded laptop systems.





THINKPAD USB-C AND HYBRID DOCKING STATIONS

The ThinkPad USB-C and Hybrid Docks are the new generations of universal docking solutions based on the latest USB-C and DisplayLink technology. They provide high-speed data transfer, support 4K UHD resolution, and rapid charging to ThinkPad selected laptops.

THINKPAD HYBRID USB-C WITH USB-A DOCK



The ThinkPad Hybrid USB-C with USB-A Dock expands the capabilities of almost any laptop, new or old, making it perfect for enterprise customers with mixed-PC or shared-desk environments, featuring enterprise-class manageability like PXE boot and MAC address pass-through. The ThinkPad Hybrid USB-C with USB-A Dock offers three high-speed USB 3.1 ports, up to two 4K UHD resolution, and rapid charging on ThinkPad selected laptops with a USB-C connection. Also, with the included USB-C to USB-A adapter, it can provide port replication to non-USB-C laptops.

THINKPAD USB-C DOCK GEN 2

With our ThinkPad USB-C Dock Gen 2's one-cable universal docking solutions, you can say goodbye to limitations and enjoy vivid 4K displays or multiple 1080p screens, charge your laptop, connect legacy USB peripherals, wired networks, and rapidly charge your mobile devices.



LENOVO USB-C MINI DOCK



Wish you could do more with your laptop? The Lenovo USB-C Mini Dock lets you expand your options and add powerful capabilities with just a single USB-C connection. Charge any legacy device with USB-A ports and effortlessly add an extra 4K or HD display, enterprise networking, and an external 3.5 mm combo audio jack.

THINKPAD USB-C AND HYBRID DOCKING STATION COMPARISON TABLE

	ThinkPad Hybrid USB-C with USB-A Dock	ThinkPad USB-C Dock Gen 2	Lenovo USB-C Mini Dock
Part Number (PN)	40AF0135xx	40AS0090xx	40AU0065xx
Connectivity	1 m USB-C cable with USB-C to USB-A adapter	1 m USB-C cable	240 mm embedded cable
Video Ports	2 x DisplayPort™ 2 x HDMI™	2 x DisplayPort™ 1 x HDMI™	1 x HDMI™ 2.0 1 x VGA
Maximum Video Output	2 x 4K @ 60 Hz	2 x 4K @ 60 Hz 3 x 1080p @ 60 Hz	1 x 4K @ 60 Hz ¹
Maximum Number of Displays	2	3	1
USB Ports	2 x USB 2.0 3 x USB 3.1 Gen 2 ² (10 Gbps, 1 x always-on charging) 1 x USB-C (10 Gbps, 5V/3A)	2 x USB-A 2.0 3 x USB-A 3.1 Gen 2 ² (10 Gbps, 1 x always-on charging) 1 x USB-C (10 Gbps, 5V/3A)	1 x USB-A 3.1 Gen 1 ² 1 x USB-C 3.1 Gen 1 ² 1 x USB-A 2.0
Ethernet (RJ45)	Gigabit		
Audio	Stereo/Microphone combo		
Power Adapter Inside the Box	135W	90W	65W
Maximum Power for Laptop Charging	90W (with USB-C connection)	60W	45W
Power Button to Control System Power	Selected ThinkPad laptops		N/A
PXE Boot	Selected ThinkPad laptops		
MAC Address Pass-through	Selected ThinkPad laptops		
Wake-on-LAN	Selected ThinkPad laptops		
Warranty	3 years	3 years	1 year
Qualified Systems ³	Selected ThinkPad and Lenovo laptops	2020/2019/2018 selected ThinkPad laptops	2020/2019/2018 selected ThinkPad laptops

¹ Actual display resolution is subject to your system's video output capability.

² Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: 5 Gbit/s for USB 3.1 Gen 1; 10 Gbit/s for USB 3.1 Gen 2; and 20 Gbit/s for USB 3.2.

³ For the latest compatibility information, please check the Accessories Compatibility Guide on www.lenovo.com/accessoriesguide, or visit: accessorysmartfind.lenovo.com

- Lenovo USB-C and Thunderbolt™ Docks function with laptops that support industry-standard USB-C Alt-Mode or Thunderbolt™ protocols through their Type-C™ port. Users may experience reduced performance when not used with the matching protocol.
- Lenovo USB-C and Thunderbolt™ Docks support additional features, such as MAC address pass-through, WOL, and mirrored power button on most Lenovo ThinkPad laptops. Still, such features may not be available on all other Lenovo laptops or non-Lenovo branded laptop systems.



THINKPAD MECHANICAL DOCKING STATIONS (2018)

ThinkPad Docking Stations provide the best docking experience for large enterprise ThinkPad customers. The innovative side connector, designed exclusively for ThinkPad laptops, provides a driver-free way to connect conveniently and securely to a range of USB accessories and external displays, while rapid charging support and a mirrored power button make going mobile even easier. It is compatible with 2020/2019/2018 ThinkPad selected systems, including X1 series.

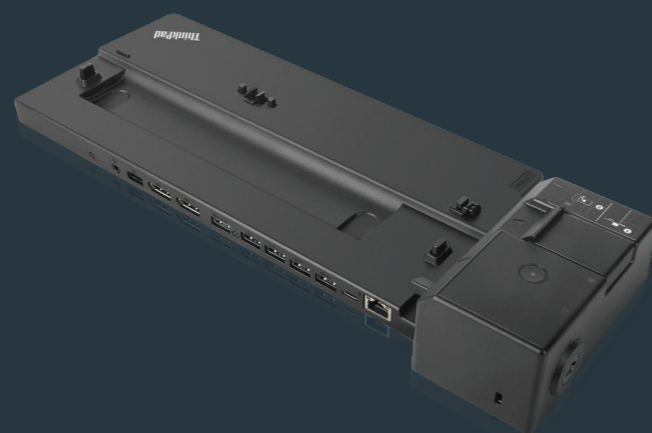
THINKPAD BASIC DOCKING STATION



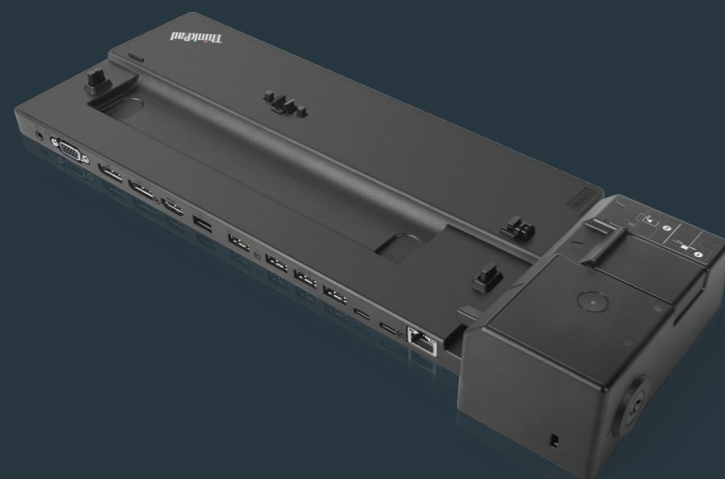
The innovative ThinkPad Basic Docking Station side-connector maintains the same intuitive one-step docking experience commercial customers have come to expect. It satisfies basic office needs such as data transfer, video, audio, and power, and is best suited for small enterprises looking for mechanical docking solutions at an affordable price.

THINKPAD PRO DOCKING STATION

The ThinkPad Pro Docking Station delivers 5 Gbps of high-speed data through three USB 3.1 ports, and up to two UHD displays. Combined with a 135W adapter, it is the perfect desktop expansion solution for graphics-intensive work.



THINKPAD ULTRA DOCKING STATION



The ThinkPad Ultra Docking Station delivers 10 Gbps of high-speed data through four USB 3.1 ports and up to three UHD displays. Combined with a 135W adapter, it is perfect for the customer who is looking for industry-leading docking performance.

THINKPAD MECHANICAL DOCKING STATION (2018) COMPARISON TABLE

	ThinkPad Basic Dock	ThinkPad Pro Dock	ThinkPad Ultra Dock
Part Number (PN)	40AG0090xx	40AH0135xx	40AJ0135xx
Connectivity	Side-connector		
Video Ports	Video 1 : DisplayPort™ 1.4 ¹ Video 1 : VGA	Video 1 : DisplayPort™ 1.4 Video 2 : DisplayPort™ 1.4	Video 1 : DisplayPort™ 1.4 Video 2 : HDMI™ 2.0 Video 3 : DisplayPort™ 1.4 Video 3 : VGA
Maximum Video Output	1 x 4K @ 60 Hz ²	2 x 4K @ 60 Hz ²	3 x 4K @ 60 Hz ²
Maximum Number of Displays	1	2	3
USB Ports	2 x USB 3.1 Gen 1 ³ (5 Gbps, 1 x always power-on) 2 x USB 2.0	3 x USB 3.1 Gen 1 ³ (5 Gbps, 1 x always power-on) 2 x USB 2.0 1 x USB-C (5 Gbps, 5V/3A bus power)	4 x USB 3.1 Gen 2 ³ (10 Gbps, 1 x always power-on) 2 x USB-C (10 Gbps, 5V/3A bus power)
Ethernet (RJ45)	Gigabit		
Audio	Stereo/Microphone combo		
Security	Kensington® lock slot Master key slot ⁴		
Power Adapter Inside the Box	90W	135W	135W
Maximum Power for Laptop Charging	65W	85W	65W
Power Button to Control System Power	Selected ThinkPad laptops		
PXE Boot	Selected ThinkPad laptops		
MAC Address Pass-through	Selected ThinkPad laptops		
Wake-on-LAN (Sleep, Hibernation and Power-off mode)	Selected ThinkPad laptops		
Warranty	3 years		
Qualified Systems ⁵	2020/2019/2018 selected ThinkPad laptops		

¹ An active adapter is required to convert DisplayPort™ to HDMI™ or VGA or other video ports.

² Actual display resolution is subject to your system's video output capability.

³ Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: 5 Gbit/s for USB 3.1 Gen 1; 10 Gbit/s for USB 3.1 Gen 2; and 20 Gbit/s for USB 3.2.

⁴ Lenovo Basic docks can install a master key mechanism. The master key solution is sold separately with a key slot option PN: 4XE0Q56388.

⁵ For the latest compatibility information, please check the Accessories Compatibility Guide on www.lenovo.com/accessoriesguide, or visit: accessorysmartfind.lenovo.com.



LENOVO USB-C HUBS

Don't let your laptop, tablet, or workstation's onboard expansion ports limit your creativity and freedom. Lenovo USB-C Hubs are versatile, ultra-portable accessories that offer expanded networking, video, audio, data, and charging capabilities in a sleek, compact form factor. Whether at the office or on-the-go, you'll have everything you need to maximize your productivity.

LENOVO POWERED USB-C TRAVEL HUB



One-stop travel docking is finally here. Connect and charge new and legacy devices wherever you happen to be. Sleek and compact, the Lenovo Powered USB-C Travel Hub fits unlimited productivity inside your everyday bag. Pair with 2018/2019/2020 selected ThinkPad systems for best results and powerful enterprise features.

LENOVO USB-C 7-IN-1 HUB

Gone are the days of stuffing your bag with dongles, adapters, and cables in an attempt to prepare for what the world might throw at you. Now you can enjoy unlimited productivity and expandability with just one, sleek, and compact USB-C 7-in-1.



LENOVO USB-C HUB COMPARISON TABLE

	Lenovo Powered USB-C Travel Hub	Lenovo USB-C 7-in-1 Hub
Part Number (PN)	4X90S92381 (ROW)	4X90V55523
Connectivity	160 mm USB-C cable with cable management slot	140 mm USB-C cable
Video Ports	1 x HDMI™ 1 x VGA	1 x HDMI™ 1.4
Maximum Video Output	1 x 4K @ 60 Hz	1 x 4K @ 30 Hz
Maximum Number of Displays	1	1
USB Ports	1 x USB-A 3.0 ¹ 1 x USB-A 2.0 1 x USB-C power pass-through	2 x USB-A 3.1 Gen 1 ¹ 1 x USB-A 2.0 1 x USB-C power pass-through
Card Readers	N/A	1 x TF Card Reader 1 x SD Card Reader
Ethernet	Gigabit	N/A
Audio	N/A	
Power Consumption	15W; can be powered by a system ² without additional AC adapter	
USB-C Power Pass-through for Laptop Charging	Able to work with Lenovo 45W & 65W USB-C power adapter ³ , charging Lenovo USB-C laptops	
PXE Boot	Selected ThinkPad laptops	
MAC Address Pass-through	Selected ThinkPad laptops	
Wake-on-LAN	Selected ThinkPad laptops	
Warranty	1 year	
Qualified Systems	2020/2019/2018 selected ThinkPad laptops	

¹ Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: 5 Gbit/s for USB 3.1 Gen 1; 10 Gbit/s for USB 3.1 Gen 2; and 20 Gbit/s for USB 3.2.

² The device requires users to have a fully-functioning USB-C port providing 5V/3A bus power.

³ The power adapter is sold separately.



DOCKING ACCESSORIES

Tailor your docking experience to your needs with Lenovo docking accessories. Enjoy the ultimate in productive and creative efficiency with a range of add-ons and extras. We've got dock-hiding monitor mounts, blazing-fast Thunderbolt™ cables, dual slim-tip adapters, and much more.

LENOVO DOCKING STATION MOUNTING KIT

The Lenovo Docking Station Mounting Kit is the perfect solution for professionals who need a clutter-free workspace that doesn't cramp their style. Rather than messing up your desk with a tangle of cables, you can now hide your docking station neatly underneath your desk or behind your ThinkVision monitor stand.



LENOVO DOCKING STATION MOUNTING KIT SPECIFICATIONS

	Lenovo Docking Station Mounting Kit
Part Number (PN)	4XFOS99497
Ship Group	1 x Docking Bracket 1 x Monitor - Stand Bracket 1 x Cable Clip
Dimensions (W x D x H)	<p>Packed (mm): 180 x 125 x 103 (inches): 7.09" x 4.92" x 4.06"</p> <p>Unpacked Docking Bracket: (mm): 245 x 87 x 55 (inches): 9.65" x 3.43" x 2.17" Monitor-Stand Bracket: (mm): 80 x 90 x 50 (inches): 3.15" x 3.54" x 1.97" Cable Clip: (mm): 55 x 40 x 10 (inches): 2.17" x 1.57" x 0.39"</p>
Weight	Packed Weight : 0.42 kg (0.93 lbs) Unpacked Weight : 0.32 kg (0.71 lbs)
Mounting Scenarios	Back-to-Monitor, Under-the-Desk
Compatible Dock	ThinkPad USB 3.0 Basic Dock ThinkPad USB 3.0 Pro Dock ThinkPad USB 3.0 Ultra Dock ThinkPad USB-C Dock Gen 2 ThinkPad Thunderbolt™ 3 Dock ThinkPad Hybrid USB-C with USB-A Dock ThinkPad Thunderbolt™ 3 Workstation Dock Gen 2 ThinkPad Thunderbolt™ 3 Dock Gen 2
Compatible Monitor	ThinkVision Monitors: P24H-10, P24q-10, P27u-10, P27h-10, P27q-10, T2054p, T2254, T2254p, T23d, T24d, T22i, T23i, T24i, T27i, T22v, T24m, T24v, New LT1913p, T1714p

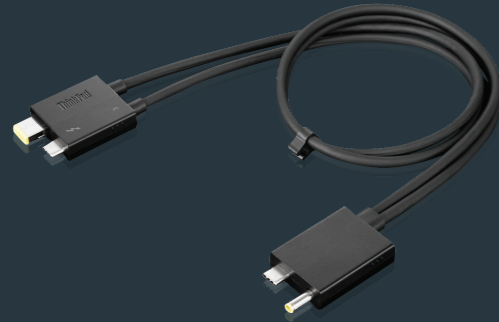
THINKPAD THUNDERBOLT™ 3 WORKSTATION DOCK SPLIT CABLE 1.5 m

- Thunderbolt™ 3 cable data rate up to 40 Gbps
- Slim-tip support max. 170W @ 20V/8.5A
- Length: 1.5 m (4'9")
- Part Number (PN): 4X90U90621



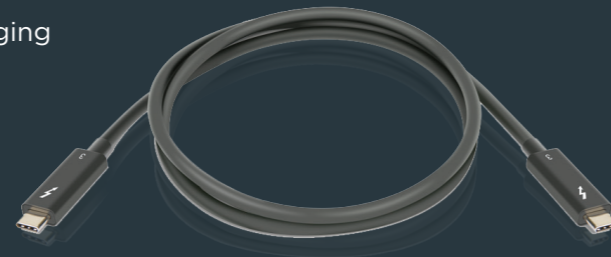
THINKPAD THUNDERBOLT™ 3 WORKSTATION DOCK CABLE

- Thunderbolt™ 3 cable data rate up to 40 Gbps
- Slim-tip support max. 170W @ 20V/8.5A
- Length: 70 cm (2'3")
- Part Number (PN): 4X90U90616



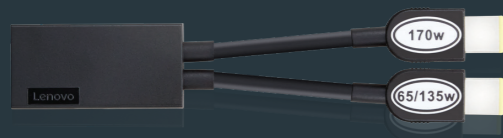
LENOVO THUNDERBOLT™ 3 CABLE 0.7 m

- Data rate up to 40 Gbps
- Support max. 100W @ 20V/5A for laptop charging
- Length: 70 cm (2'3")
- Part Number (PN): 4X90U90617



LENOVO THUNDERBOLT™ 3 WORKSTATION DOCK SLIM-TIP Y CABLE

- Input 230W Slim-tip power adapter
- Output is fixed for two scenarios:
 - Output 1: Max. 170W, by-pass to charge MWS
 - Output 2: Max. 135W to power on the dock; and charge laptop when no MWS attached to Output 1
- Part Number (PN): 4X90U90620



LENOVO DUAL SLIM-TIP ADAPTER

- Input: Must be equal or larger than 135W
- Output: For laptop - 65W; For the dock - up to 135W
- Cable length: For laptop - 1.2 m (3.9 ft); For the dock: 50 mm (2")
- Part Number (PN): 4X20W69154



LENOVO HYBRID USB-C WITH USB-A CABLE

- Data rate up to 10 Gbps
- USB-C support max. 100W @ 20V/5A
- USB-A support max. 7.5W @ 5V/1.5A
- Length: 1 m (3'3")
- Part Number (PN): 4X90U90618



LENOVO USB-C CABLE (1 m & 2 m)

- Data rate up to 10 Gbps (1 m); 5 Gbps (2 m)
- USB-C support max. 100W @ 20V/5A (1 m); 60W @ 20V/3A (2 m)
- Length: 1 m (3'3"); 2 m (6'6")
- Part Number (PN): 4X90U90619 (1 m); 4X90Q59480 (2 m)



MICROSAVER® 2.0 DUAL HEAD CABLE LOCK FROM LENOVO

- Smaller lock head for better usability with ultrathin systems (dock with laptop, tablet, monitor)
- Less space needed for lock slot in chassis
- Incredible secure: Minimum of 55 kg (120 lbs) pulling strength
- Cable length: 1.8 m (6 ft)
- Part Number (PN): 4XEON80915

