



## Knowledge Base & Guides

# ThinkPad Thunderbolt 3 Dock Gen 2 - Overview and Service Parts



03X7539

## Overview

This Intel® Thunderbolt™ Chipset powered Thunderbolt Dock Gen 2 (40AN) aimed to boost productivity with extended compatibility on both USB-C and Thunderbolt enabled laptop.

Features include:

- **Upgraded compatibility:** Quick access to high-speed data transfer, UHD display, and 65W power to both Thunderbolt™ and USB-C notebooks.
- **Extreme performance:** The Intel® Thunderbolt™ 3 Chipset offers large data transfers at 40 Gbps, and run up to three 4K UHD displays
- **Enterprise-friendly:** Supports network manageability such as PXE boot, system Wake-On LAN from a variety of modes, and MAC address pass-through with ThinkPad® notebooks.

Also, compatible with [Lenovo Docking Station Mounting Kit \(4XF0S99497\)](#)

## Drivers and Downloads

Driver	Version
<a href="#">Driver for Thunderbolt Dock Gen 2</a>	V10016
<a href="#">Firmware for Windows 10 (64-bit)</a>	V3.1.67

For Enterprise Deployments, including Enterprise Firmware tools, click the following:

- [Lenovo Docks Deployment Guide](#)
- [Enterprise Deployment Solutions](#)

Note: Please refer to “Install Windows 10 and drivers” section of system user guide regarding recommended BIOS setting for best compatibility performance. “OS Optimized Defaults” is to be set as default to meet the Windows 10 certification requirement.

## Documentation and Manuals

Manuals	Version	Release Date
<a href="#">Setup Poster</a> (916 KB)	September 2020	14 September 2020
<a href="#">External Power Supply Datasheet (ErP Lot 7)</a> (182 KB)	V 1.0	24th March 2020
<a href="#">User Guide (English)</a> (0.97 MB)	September 2020	14 September 2020
<a href="#">User Guide (Brazilian Portuguese)</a> (962 KB)	September 2020	14 September 2020
<a href="#">User Guide (Chinese Simplified)</a> (542 KB)	September 2020	14 September 2020
<a href="#">User Guide (Chinese Traditional)</a> (611 KB)	September 2020	14 September 2020
<a href="#">User Guide (Czech)</a> (957 KB)	September 2020	14 September 2020
<a href="#">User Guide (Korean)</a> (1.09 MB)	September 2020	14 September 2020
<a href="#">User Guide (French)</a> (971 KB)	September 2020	14 September 2020
<a href="#">User Guide (German)</a> (970 KB)	September 2020	14 September 2020
<a href="#">User Guide (Italian)</a> (967 KB)	September 2020	14 September 2020
<a href="#">User Guide (Japanese)</a> (1.57 MB)	September 2020	14 September 2020
<a href="#">User Guide (Russian)</a> (967 KB)	September 2020	14 September 2020
<a href="#">User Guide (Slovak)</a> (953 KB)	September 2020	14 September 2020
<a href="#">User Guide (Spanish)</a> (969 KB)	September 2020	14 September 2020
<a href="#">User Guide (Turkish)</a> (950 KB)	September 2020	14 September 2020
<a href="#">User Guide (Dutch)</a> (960 KB)	September 2020	14 September 2020
<a href="#">User Guide (Ukrainian)</a> (966 KB)	September 2020	14 September 2020

## Warranty

- 3 years

## Hardware Compatibility

Thunderbolt 3 Port with Thunderbolt 3 Dock cable (03X7539 or 5C10V25714):



The following list are the systems that support the ThinkPad Thunderbolt Dock Gen 2 using Thunderbolt 3 port, with links for the corresponding drivers.

<a href="#">ThinkPad T470s (20JS, 20JT)</a>	<a href="#">ThinkPad T495 (20NJ,20NK)</a>	<a href="#">ThinkPad Yoga 370</a>
<a href="#">ThinkPad T470s (20HF, 20HG)</a>	<a href="#">ThinkPad T570 (20JW, 20JX)</a>	<a href="#">ThinkPad X1 Carbon 5th Gen - Kabylake (20HR, 20HQ)</a>
<a href="#">ThinkPad T470 (20JM, 20JN)</a>	<a href="#">ThinkPad T580 (20L9, 20LA)</a>	<a href="#">ThinkPad X1 Carbon 5th Gen - Skylake (20K4, 20K3)</a>
<a href="#">ThinkPad T470 (20HD, 20HE)</a>	<a href="#">ThinkPad T590 (20N4,20N5)</a>	<a href="#">ThinkPad X1 Carbon 7th Gen (20QD, 20QE)</a>
<a href="#">ThinkPad T480s (20L7, 20L8)</a>	<a href="#">ThinkPad T495s (Type 20QJ, 20QK)</a>	<a href="#">ThinkPad X1 Yoga 2nd Gen (20JD, 20JE, 20JF, 20JG)</a>
<a href="#">ThinkPad T480 (20L5, 20L6)</a>	<a href="#">ThinkPad X395 (20NL 20NM)</a>	<a href="#">ThinkPad X1 Yoga 3rd Gen (20LD, 20LE, 20LF, 20LG)</a>
<a href="#">ThinkPad T490s (20NX, 20NY)</a>	<a href="#">ThinkPad X390 Yoga (20NN, 20NQ)</a>	<a href="#">ThinkPad X1 Yoga 4th Gen (20QF, 20QG)</a>
<a href="#">ThinkPad T490 (20N2, 20N3)</a>	<a href="#">ThinkPad X380 Yoga (20LH, 20LJ)</a>	<a href="#">ThinkPad P51s (20HB, 20HC)</a>
<a href="#">ThinkPad T490 (20Q9,20QH)</a>	<a href="#">ThinkPad X280 (20KF, 20KE)</a>	<a href="#">ThinkPad P51s (20JY, 20K0)</a>
<a href="#">ThinkPad T570 (20H9,20HA)</a>	<a href="#">ThinkPad X390</a>	<a href="#">ThinkPad P52s (20LB, 20LC)</a>
<a href="#">X1 Yoga 5th Gen</a>	<a href="#">T490 (Type 20RY, 20RX)</a>	<a href="#">T15</a>
<a href="#">T14 Gen 1 (type 20S0, 20S1)</a>	<a href="#">T14 Gen 1 (type 20S2, 20S3)</a>	<a href="#">T14s (Type 20T0, 20T1)</a>
<a href="#">P14s Gen 1 (type 20S4, 20S5)</a>	<a href="#">P15s Gen 1 (type 20T4 20T5)</a>	<a href="#">P43s (Type 20RH, 20RJ)</a>
<a href="#">P53s (Type 20N6, 20N7)</a>	<a href="#">X13 Yoga Gen 1</a>	<a href="#">X13 (Type 20T2, 20T3)</a>
<a href="#">X1 Carbon 8th Gen</a>	<a href="#">ThinkPad X1 Carbon 6th Gen(20KG,20KH)</a>	

**USB-C Port with Thunderbolt 3 Dock cable (03X7539 or 5C10V25714):**



The following list are the systems that support the ThinkPad Thunderbolt Dock Gen 2 using the USB-C port, with links for the corresponding drivers.

<a href="#">ThinkPad L390 (20NR, 20NS)</a>	<a href="#">ThinkPad L490 (20Q5,20Q6)</a>	<a href="#">ThinkPad E590 (20NB, 20NC)</a>
<a href="#">ThinkPad L390 Yoga (20NT, 20NU)</a>	<a href="#">ThinkPad L580 (20LW, 20LX)</a>	<a href="#">ThinkPad E490 (20N8, 20N9)</a>
<a href="#">ThinkPad L480 (20LS, 20LT)</a>	<a href="#">ThinkPad L590 (20N7,20N8)</a>	<a href="#">ThinkPad E490s (20NG)</a>
<a href="#">E14 (Type 20RA, 20RB)</a>	<a href="#">E15 (Type 20RD, 20RE)</a>	<a href="#">L14 (type 20U1, 20U2)</a>
<a href="#">L15 (type 20U3, 20U4)</a>	<a href="#">L13 (type 20R3, 20R4)</a>	<a href="#">L13 Yoga (type 20R5, 20R6)</a>

#### Notes:

- The Thunderbolt firmware in this dock can only be updated through a connected notebook. Ensure the dock cable is connected to the proper Thunderbolt Type-C port when updating dock firmware.
- For the dock to perform at its full capability and allow the data transfer rates designed under the Thunderbolt™ 3 technology (up to 40Gbps), it must be used with a Thunderbolt™ 3 enabled system. When connected with a system it supports but which is not Thunderbolt™ 3 enabled (please refer to the list of supported systems), it can only work at speed permitted by the respective system. For example, if the dock is connected with a system which only supports USB3.1 Gen 2 connection but not Thunderbolt™ technology, the data transfer rate will be up to 10Gbps only.
- Performance of the dock will vary depending on the specific hardware and software used and many other factors. The actual data transfer speed may be slower than designed under respective connection technologies like Thunderbolt™ 3 or USB3.1.

For the latest updates on the compatible systems, refer to one of the following:

- [Lenovo Smart Find](#)
- [Accessories Compatibility Guide](#)
- [Docks Finder](#) - Find a compatible docking station for your Lenovo laptop.

Also, compatible with [Lenovo Docking Station Mounting Kit \(4XF0S99497\)](#)

For more information on non-Lenovo systems, click: [Dock Guidelines and Troubleshooting when connected to Non-Lenovo systems](#)

## Ports and Security

- Docking Interface:

- USB-C
- Video Ports:
  - Two DisplayPort
  - Two HDMI
  - One Thunderbolt 3 DownStream Port (video/data)
- USB Ports:
  - Five USB 3.1 Gen 2 (1 provide always-on mobile device charging)
- Networking:
  - Gigabit Ethernet Port
- Audio:
  - 3.5 mm Stereo/Microphone Combo Port
- Security:
  - Kensington Lock Slot

## Physical Specifications

- Packaged in a carton (approximate):
  - Width: 270 mm (10.6 in)
  - Depth: 164 mm (6.5 in)
  - Height 75 mm (2.95 in)
  - Weight: 1395 g (3.07 lb)
- Unpacked (approximate):
  - Width: 220 mm (8.66 in)
  - Depth: 80 mm (3.15 in)
  - Height 30 mm (1.18 in)
  - Weight: 525g (1.16)
- Operating Environment
  - Relative Humidity: 5% to 95%
  - Temperature: 0 degrees C (32 degrees F) to + 40 degrees C (104 degrees F)

## Operating System Requirement

- Windows 10 64-bit

## Shipment Group

- ThinkPad Thunderbolt Dock Gen 2
- [135W AC Power Adapter \(Slim Tip\) and Power Cord](#)
- Thunderbolt Cable (03X7539 or 5C10V25714)
- Setup Poster and User Guide

## Part Numbers

- **Marketing Part Number:** The part number used for purchasing the product.
- **Service Part Number:** The part number for service for the product or one of the product's components.

Marketing Part Number	Countries / Region	Dock - Service Part Number	Thunderbolt Cable - Service Part Number	<a href="#">135W AC Power Adapter (Slim Tip) - Service Part Number</a>	Power Cord - Service Part Number
40AN0135US	U.S., Canada, Mexico, Colombia, Panama, Peru, Ecuador			45N0556	42T5008
40AN0135AR	Argentina			45N0556	42T5020

40AN0135BR	Brazil	03X7538	03X7539 or 5C10V25714	45N0556	42T5180
40AN0135JP	Japan			45N0556	04T0753
40AN0135EU	EU (France, Germany, Spain, Portugal, Netherlands, Austria, Belgium, Norway, Finland, Iceland), Turkey, Ukraine, Russia, Vietnam, Indonesia, Korea			45N0554	42T5029
40AN0135DK	Denmark			45N0554	42T5041
40AN0135IN	India			45N0554	42T5083
40AN0135SA	South Africa			45N0554	42T5056
40AN0135UK	United Kingdom, Hong Kong, Singapore, Malaysia, U.A.E., Saudi Arabia			45N0554	42T5035
40AN0135CH	Switzerland			45N0554	42T5044
40AN0135IT	Italy, Chile			45N0554	42T5047
40AN0135IS	Isreal			45N0554	42T5062
40AN0135AU	Australia, New Zeland, Fiji, Paupa New Guinea			45N0554	42T5050
40AN0135CN	Mainland China			45N0554	42T5065
40AN0135TW	Taiwan, Thailand, Philippines, Guam			45N0554	42T5071

## Related Articles

- [Popular Topics: Docks, Docking Stations](#)
- [Dock Guidelines and Troubleshooting when connected to Non-Lenovo systems](#)
- [Audio ports on selected ThinkPad docks not support Dolby Enhancement feature - ThinkPad Docks](#)
- [Display and Video Output Configurations - Docking Stations](#)
- [Monitors - Reference Guide](#)
- [Monitor Accessories - Reference Guide](#) - Includes monitor cables: DisplayPort, HDMI, VGA, DVI
- [Docks, Port Replicator, Ultrabase - Reference Guide](#)
- [Personal Systems Reference \(PSREF\)](#) - Comprehensive information on the features and technical specifications of Lenovo products.

Footnote: Depending on many factors such as the processing capability of the host and peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual data transfer rate will be slower than 5 Gbit/s on USB 3.1 Gen 1 (USB 3.0) connectors, slower than 10 Gbit/s on USB 3.1 Gen 2 connectors, and slower than 20 Gbit/s on USB 3.2 connectors.

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