



Thunderbolt™ 3 Dual DisplayPort® Docking Station



P/N 36656

User's Manual

SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately remove it from its power source and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Do not expose this device to excessive vibration or extreme force, shock, or fluctuations in temperature or humidity.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near a heat source, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Do not place or install this device in an area where it can be exposed to excessive amounts of dust, humidity, oil, smoke, or combustible vapors.
- Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.
- Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.
- Unplug this device from the power source when not in use.
- Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.
- Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.
- Ensure that power is turned off and disconnected before making any electrical connections.

- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This device has no user serviceable parts. Do not attempt to open, service, or modify this device.

INTRODUCTION

This Intel®-Certified Monoprice™ Thunderbolt™ 3 Dual DisplayPort® Docking Station adds a host of connectivity options to your Thunderbolt 3 or Multi-Function DisplayPort (MFDP) USB Type-C® compatible computer. It fully complies with the DisplayPort 1.4 standard and supports two 4K@60Hz displays or a single 8K@30Hz display. It features a Gigabit Ethernet connection, three USB Type-A ports, one USB Type-C port, and independently addressed SD™ and microSD™ card slots, which can both be used at the same time. It has a 3.5mm TRRS audio jack for use with a microphone and speakers. It supports USB data transfer rates up to 10Gbps and can provide up to 60W of Power Delivery (PD) to the host computer.

FEATURES

- Works with Thunderbolt™ 3 and Multi-Function DisplayPort® (MDFP) compatible USB Type-C® hosts
- Supports two 4K@60Hz displays or a single 8K@30Hz display
- Up to 60W of Power Deliver (PD)
- One USB 3.2 Gen 2 Type-C, two USB 3.2 Gen 2 Type-A, and one USB 3.2 Gen 1 Type-A ports
- Supports USB data transfer rates up to 10Gbps
- 10/100/1000Mbps Gigabit Ethernet port
- SD™ and microSD™ card slots that can be used at the same time
- 3.5mm TRRS audio jack with automatic CTIA/OMTP detection
- Intel® Certified

CUSTOMER SERVICE

The Monoprice™ Customer Service department is dedicated to ensuring that your ordering, purchasing, and delivery experience is second to none. If you have any problem with your order, please give us an opportunity to make it right. You can contact a Monoprice Customer Service representative through the Live Chat link on our website www.monoprice.com or via email at support@monoprice.com. Check the website for support times and links.

PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice™ Customer Service for a replacement.

1x Thunderbolt™ 3 Docking Station

1x 0.5m Thunderbolt 3 Cable

1x 120W AC Power Adapter

1x AC Power Cord

1x User's Manual

PRODUCT OVERVIEW

Front Panel



1. **SD/microSD:** SD™ and microSD™ card slots conforming to the SD 3.0 specification with a UHS-I speed class rating and up to 104Mbps data transfer rate. Each slot is independently addressed, so both slots can be used at the same time.
2. **Audio:** 3.5mm TRRS audio jack for connecting a headset, amplifier, or powered speakers. The jack supports standard analog audio microphone input and headphones output signals, with automatic detection of the CTIA and OMTP microphone/ground wiring standards.
3. **USB Type-C:** USB 3.2 Gen 2 Type-C® port with support for up to 10Gbps data transfer rate and 5VDC/1.5A of charging power.

4. **USB Type-A 1:** USB 3.2 Gen 2 Type-A port with support for up to 10Gbps data transfer rate and 5VDC/900mA of charging power.
5. **USB Type-A 2:** USB 3.2 Gen 2 Type-A port with support for up to 10Gbps data transfer rate and 5VDC/1.5A of charging power.

Rear Panel



6. **DC 20V/6A:** DC barrel connector for connecting the included 120W AC power adapter.
7. **Host:** Thunderbolt™ 3 port for connecting a Thunderbolt 3 or Multi-Function DisplayPort (MFDP) compatible USB Type-C® computer.
8. **DisplayPort 1:** DisplayPort® 1.4 port for connecting a DisplayPort display.
9. **DisplayPort 2:** DisplayPort 1.4 port for connecting a DisplayPort display.
10. **Ethernet:** RJ45 jack for connecting to an existing Ethernet network. The jack complies with the Gigabit Ethernet standard and supports 10/100/1000Mbps speeds.
11. **USB Type-A 3:** USB 3.2 Gen 1 Type-A port with support for up to 5Gbps transfer data rate and 5VDC/900mA of charging power.

FUNCTIONALITY

The functionality, specifications, and specific capabilities of this Docking Station vary, depending on whether it is connected to a macOS® or Windows® computer with a Thunderbolt™ 3 port or if it is connected to a computer with a Multi-Function DisplayPort (MFDP) compatible USB Type-C® port. Please refer to your computer's user's manual or technical specifications to determine whether it supports one of these requirements or not.

Thunderbolt 3 Computer

When connected to a computer with a Thunderbolt™ 3 port, the Host and DisplayPort connections on the Docking Station support the following specifications and capabilities when connected using a Thunderbolt 3 cable (included).

- **Host:** The **Host** port (7) supports an input bandwidth of up to 40Gbps (data+video) and up to 60W of USB Type-C Power Delivery (PD) to the connected host computer, with 5VDC/3A, 9VDC/3A, 15VDC/3A, or 20VDC/3A of power.
- **DisplayPort 1.4:** The two **DisplayPort**® ports (8 and 9) support 4-lane DisplayPort 1.4 operation, with a maximum single-display resolution of 8K@30Hz. They also support Multi-Stream Transport (MST) operation, with support for two monitors with maximum resolutions of 8K@30Hz+4K@30Hz or 4K@60Hz+4K@60Hz.

MFDP USB Type-C Computer

When connected to a computer with a USB Type-C® port that supports the Multi-Function DisplayPort (aka DisplayPort Alternate Mode on USB Type-C Connector Standard) feature, the Host and DisplayPort connections on the Docking Station support the following specifications and capabilities when connected using a Thunderbolt 3 cable (included) or a USB 3.2 Gen 2 cable with 10Gbps support (available separately).

- **Host:** The **Host** port (7) supports an input bandwidth of up to 32.6Gbps and up to 60W of USB Type-C Power Delivery (PD) to the connected host computer, with 5VDC/3A, 9VDC/3A, 15VDC/3A, or 20VDC/3A of power.

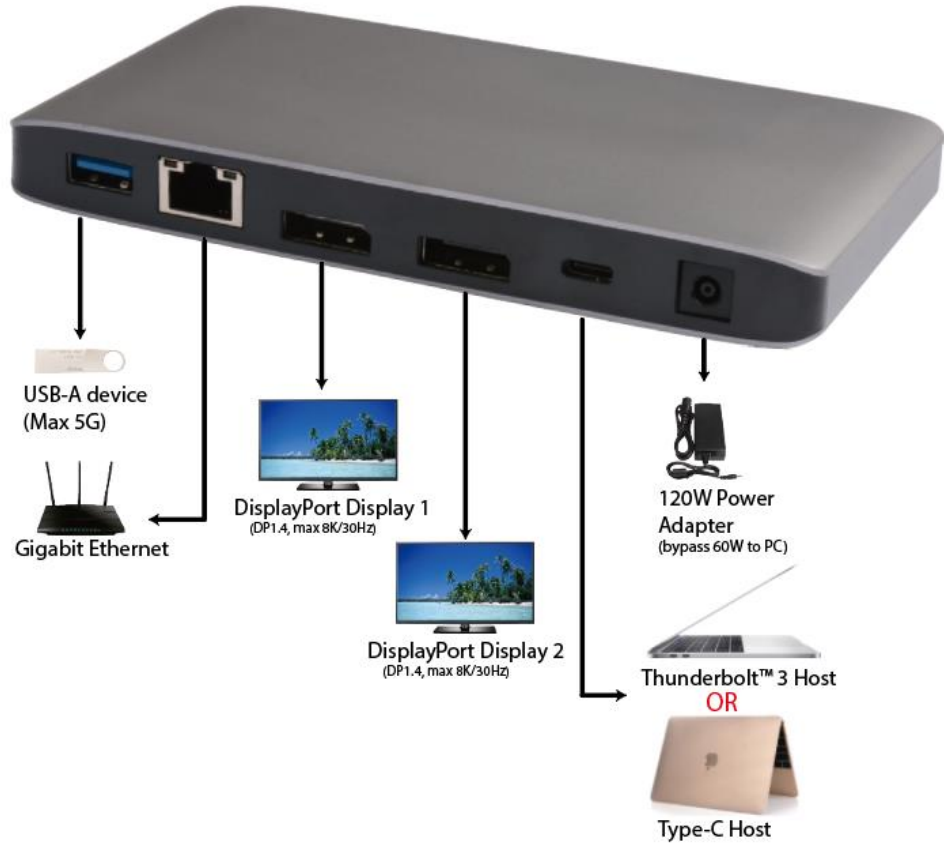
- **DisplayPort 1.4:** The two **DisplayPort®** ports (8 and 9) support 2-lane DisplayPort 1.4 operation, with a maximum single-display resolution of 4K@60Hz. They also support Multi-Stream Transport (MST) operation, with support for two monitors with maximum resolutions of 4K@30Hz+4K@30Hz.

Thunderbolt 3 or MFDP USB Type-C Computer

When using a computer with either a Thunderbolt™ 3 port or a USB Type-C® port that supports the Multi-Function DisplayPort (aka DisplayPort Alternate Mode on USB Type-C Connector Standard) feature, the other ports support the following specifications and capabilities.

- **USB Type-C:** The **USB Type-C®** port (3) supports the USB 3.2 Gen 2 standard, with support for up to 10Gbps data transfer rate and 5VDC/1.5A of charging power.
- **USB Type-A 1:** The **USB Type-A 1** port (4) supports the USB 3.2 Gen 2 standard, with support for up to 10Gbps data transfer rate and 5VDC/900mA of charging power.
- **USB Type-A 2:** The **USB Type-A 2** port (5) supports the USB 3.2 Gen 2 standard, with support for up to 10Gbps data transfer rate and 5VDC/1.5A of charging power.
- **USB Type-A 3:** The **USB Type-A 3** port (11) supports the USB 3.2 Gen 1 standard, with support for up to 5Gbps data transfer rate and 5VDC/900mA of charging power.
- **Ethernet:** The RJ45 **Ethernet** jack supports the Gigabit Ethernet standard with speeds of 10/100/1000Mbps.
- **Audio:** The 3.5mm TRRS **Audio** jack (2) supports standard analog audio microphone input and headphones output signals, with automatic detection of the CTIA and OMTP microphone/ground wiring standards. Most modern phones support the CTIA standard, while the OMTP standard can be found on some older phones and on phones in China.
- **SD/microSD:** The **SD™** and **microSD™** card slots support the SD 3.0 standard, with a UHS-I speed class rating and up to 104Mbps data transfer rate. The two slots are independently addressed, so both slots can be used at the same time.

SAMPLE CONNECTION DIAGRAMS



TECHNICAL SUPPORT

Monoprice™ is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website www.monoprice.com or through email by sending a message to tech@monoprice.com. Check the website for support times and links.

To download the latest drivers, firmware, manuals, etc., go to www.monoprice.com and type the **P/N** into the search bar. If available, support files are linked at the bottom of the product page.

SPECIFICATIONS

P/N	36656
Host Connection	Thunderbolt™ 3 or MFDP USB Type-C®
Downstream Connections	2x DisplayPort® 1.4, 1x RJ45 Gigabit Ethernet, 1x USB 3.2 Gen 2 Type-C, 2x USB 3.2 Gen 2 Type-A, 1x USB 3.2 Gen 1 Type-A, 1x SD™ card slot, 1x microSD™ card slot, 1x 3.5mm TRRS audio jack
Maximum Single Display Video Resolution	Thunderbolt 3 Host: 8K@30Hz MFDP USB Type-C Host: 4K@60Hz
Maximum Dual Display Video Resolution	Thunderbolt 3 Host: 8K@30Hz+4K@30Hz or 4K@60Hz+4K@60Hz MFDP USB Type-C Host: 4K@30Hz+4K@30Hz

Input Bandwidth	Thunderbolt™ 3 Host: 40Gbps MFDP USB Type-C® Host: 32.6Gbps
Power Delivery	60W (5VDC/3A, 9VDC/3A, 15VDC/3A, 20VDC/3A)
USB Data Transfer Rates	1x USB Type-C 10Gbps, 2x USB Type-A 10Gbps, 1x USB Type-A 5Gbps
Charging Power	1x USB Type-C: 5 VDC, 1.5A 1X USB Type-A: 5 VDC, 1.5A 2x USB Type-A: 5 VDC, 900mA
Ethernet Data Transfer Rates	10/100/1000Mbps
SD™ Card Version	3.0
SD Speed Class Rating	UHS-I
SD Card Data Transfer Rate	104Mbps
Automatic CTIA/OMTP Detection	Supported
Input Power	20 VDC, 6A
AC Adapter Input Power	100 ~ 240 VAC, 50/60 Hz
Operating Temperature	+32 ~ +113°F (0 ~ +45°C)
Storage Temperature	+32 ~ +158°F (0 ~ +70°C)
Operating and Storage Humidity	10 ~ 90% RH, noncondensing
Dimensions (WxDxH)	5.8" x 3.1" x 0.7" (148 x 80 x 18 mm)
Weight	11.1 oz. (315g)

REGULATORY COMPLIANCE

Notice for FCC



This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying the equipment without Monoprice's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice for Industry Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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