



# USB-C Dual Video MST Docking Station with PD Charging User Manual



04-1359A

P/N: JU-DK0N11-S1

## Table of Contents

• Features	3
• Package contents	4
• System requirements	4
• What is USB 3.1 Type-C?	5
• DP alt mode (DisplayPort alternative mode)	6
• USB Power Delivery	6
• What is DisplayPort MST? (Multi-Stream Transport)	7
• MST Video output table	7
• Front View	8
• Rear View	9
• Q & A	10
• Support	12



## Features

- Support USB 10G speed connection between host and docking station. (USB 10G host required)
- Support USB 10G speed port x3, Type-A + Type-C x2
- Support USB 5G speed port x1,
- Support two MST HDMI video output (Refer to MST output table)
- Support Ethernet 10/100/1000Mbps
- Support SD & micro SD 3.0 (UHS-I) card reader. can use simultaneously.
- Support 3.5mm Headset jack
- Support USB PD 3.0 charging 60W
- compatible with Thunderbolt3 and Type-C host
- Only Windows OS support MST function

## Package contents

- USB-C Dual HDMI Video MST Docking Station
- Power adapter DC 24V / 4A
- USB Type-C to Type-C cable
- User Manual

## System requirements

- Host computer system with an available USB Type-C (Thunderbolt 3 compatible) Port which supports DP Alt Mode and Power Delivery
- Windows® 10 / 8 .1/ 8 / 7 (32/64 bit)
- Only Windows OS support MST function

## What is USB 3.1 Type-C?

- USB 3.1 Type-C is a new generation connector interface of USB 3.1 standard, that is capable to support for the following:
- USB 3.1 Gen 1 support up to 5 Gbps data transfer rate and USB 3.1 Gen 2 support up to 10Gbps data transfer rate
- Bi-directional power delivery up to 100W, if both the USB host connection and the device support it
- DP Alternate modes, the signal is based on the DisplayPort version to deliver different speeds.

Not all USB-C ports support the full functionality of the USB Type-C standard. For more information, please refer to the information provided by the manufacturers.

## **DP alt mode** (DisplayPort alternative mode)

This docking station supports DP alt mode, which means a DisplayPort video signal can be transferred over a USB-C cable.

Because the docking station supports DP alt mode, so the Alt mode video port can output the video directly via DP alt mode without other driver installs.

## **USB Power Delivery**

This docking station supports USB Power Delivery, which means it delivers up to 100 watts of power to your connected host laptop (your laptop's USB-C port must support power delivery). USB Power Delivery is a specification that allows power to be sent over a USB-C or Thunderbolt 3 cable that supports the specification.

Ensure your USB-C cable can support PD 100W transfer or use the included USB-C cable.

## What is DisplayPort MST? (Multi-Stream Transport)

MST has been a feature of the DisplayPort standard since version 1.2 was released. The key factor of the technology's usefulness for desktop users is that it allows multiple independent displays to be driven from a single DisplayPort output source device.

The combined data requirements of all the displays cannot exceed the limits of the single DisplayPort port that the video source originates from, nor exceed the capabilities of your graphics cards.

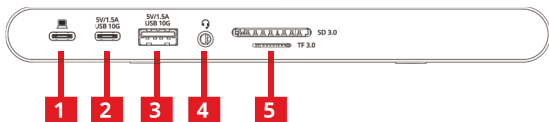
### MST Video output table

	DP 1.2 Host	DP 1.4 Host	DP 1.4 Host (with *DSC)
Signal HDMI	4K30	4K60	4K60
Dual HDMI	1080p+1080p	4K30+4K30	4K60+4K60

**\*DSC (Display Stream Compression)**

Both of video source and display are required DSC to enable

## Front View



### 1. **USB-C host:**

Connect to USB-C port which supports DP Alt Mode and Power Delivery.

PD charging 60W

(Please use include USB C to C cable)

Not all USB-C ports support the full functionality of the USB Type-C standard.

Ensure that your host USB-C port supports all functions

### 2. **USB 10G Type-C port:**

Support USB UASP mode, 10Gbps speed and 5V/1.5A power output.

connect for USB peripherals

(Support USB BC 1.2 charging)

### 3. **USB 10G Type-A port:**

Support USB UASP mode, 10Gbps speed and 5V/1.5A power output.

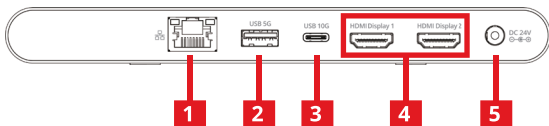
connect for USB peripherals

(Support USB BC 1.2 charging)



4. **3.5mm headset jack:**  
connect to headset  
(include audio and microphone)
5. **SD & TF 3.0 (UHS-I) card reader**  
(can use simultaneously)

## Rear View



1. **RJ-45 Gigabit Ethernet port**  
connect to ethernet router or switch  
(Support 1000/100/10 Mbps)
2. **USB 5G Type-A port:**  
USB 3.0 Type-A port support USB UASP mode, 5Gbps speed and 5V/900mA power output.  
connect for USB peripherals
3. **USB 10G Type-C port:**  
Support USB UASP mode, 10Gbps speed and 5V/1.5A power output.  
connect for USB peripherals

#### 4. **MST video output**

This video output via host DP Alt mode  
Connect to HDMI display  
Resolution up to 3840x2160p@60Hz

#### 5. **Power jack:**

Connect the Power Adapter to the DC  
Power Input Port on the Docking  
Station. DC 24V/4A

## Q & A

- **Why my laptop can't get 60W charging?**

It depends on laptop charging spec, not all laptops need 60W input.

- **Why MST video output has no video?**

Ensure your USB-C host port support DP Alt mode.

- **Why MST only have one video output?**

Because bandwidth limit. Please refer to the MST Video output table to adjust the video output resolution.

**BLANK PAGE**

**Dear Valued Customer**

**WE REALLY  
APPRECIATE  
YOUR PURCHASE**

***~thank you~***

**Support**

For more info or tech support  
**<http://www.siig.com/support>**