USB Gen2 Type-C Triple Display DP™ 1.4 Alt mode + Smart PD Charging Dock with 120 Watt PSU

INTRODUCTION

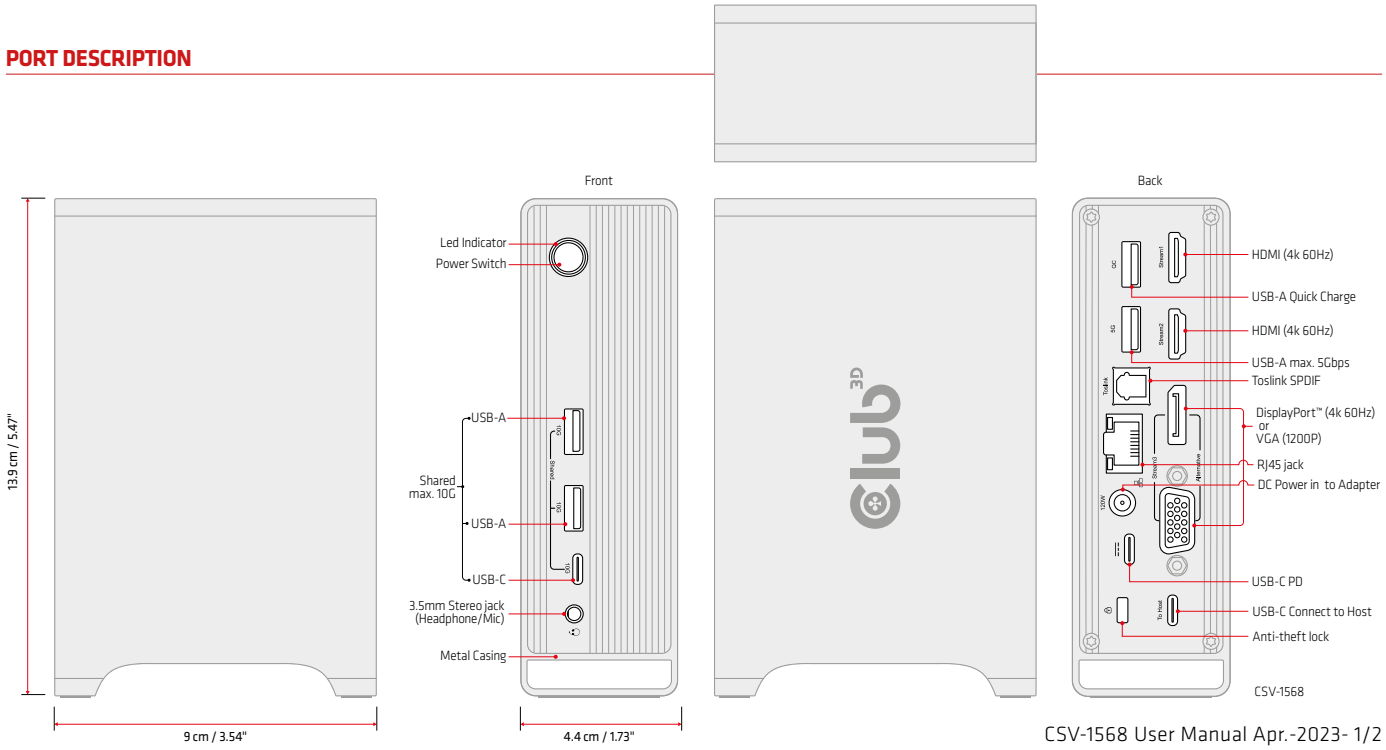
The Club 3D CSV-1568 USB Gen2 Type-C Triple Display DP™ Alt mode + Smart PD Charging Dock with 120 Watt PSU, is an integrated solution combining Video, Data, Power, Ethernet and Audio. It has 4 videos (output 3 videos simultaneously under MST mode) for video transmission, 4 USB data ports (2 USB-A 10G, 1 Type-C 10G, 1 USB-A 5G)for data transmission, 1 USB-A smart charging port for quick charging, 1 Gigabit Ethernet for super fast Ethernet, 2 audio ports (3.5mm audio, Toslink) for enjoying music. Besides, this dock is equipped with dual power jack (Type-C PD Charging or 120W DC power supply).

It supports all DP Alt mode1.4/1.2 supported Type-C and ThunderboltT™ 3 host (PC, Laptop, Mobile phone, etc.) under Windows and under MacOSX based on Intel you will only get limited SST Function or Single display Only.

FEATURES

- Designed for DP Alt mode supported Type-C and Thunderbolt3 host (PC, laptop, mobile phones, etc)
- Support DP1.4 Alt mode
- Support to output 3 videos (2 HDMI+VGA or 2 HDMI+DP) simultaneously under both SST and MST mode , DP and VGA are alternative (DP is prior to VGA when 2 ports are connected simultaneously)
- 3 videos share max 16.2Gbps bandwidth
- When one video port is connected, support HDMI max 4K/60Hz, DP max 4K/60Hz, VGA max 1920x1200/60Hz
- DP and HDMI support RGB 4:4:4/ YCbCr 4:4:4/ YCbCr 4:2:2
- DP and HDMI support deep color 8/10 bit
- DP and HDMI support HDR
- DP and HDMI support HDCP2.2&1.4
- DisplayPort supports DP++ which enables to connect a passive DP to HDMI port to connect HDMI display.
- Support Gigabit Ethernet
- Support USB3.2 Gen2 with max 10Gbps data transfer
- Support smart charging, compliant with QC,Apple,Samsung AFC, Hi Silicon FCP charging protocol
- Support Digital audio with max 96KHz/24bit sampling rate
- Support dual power supplies: Type-C PD charging or DC Jack
- Type-C female supports max 100W PD Charging with fast role swap of PD3.0, support smart power which allows to distribute power according to actual consumption of the connected devices
- Max 120W power supply from DC Adapter, support smart power according to actual consumption of the connected devices, the host can get power ranging from 60w to 100w
- **Smart power:** flexability distribute power to PC and dock in real time according to the consumption of connected devices, so as to take full advantage of provided power from the external power adapter: more power will be dedicated for charging host if the downstream ports of the dock consume less power; once the power consumption of the dock and the connected device increases, the power dedicating for charging host will decrease accordingly.

PORT DESCRIPTION



SPECIFICATIONS

Input/Output Connector

Upstream
USB-C Female(Connect to Type-C Host) x1

Downstream
HDMI x2, VGA x1, DP x1
USB-C Gen 2 10G x1
USB-A Gen 2 10G X2
USB-A Gen1 5G x1
3.5mm Audio x1
Toslink SPDIF x1
RJ45 x1
USB Quick Charging x1
PD Charging x1
DC Jack x1

Type-C Female x1 (to host)
- Support DP1.4 Alt mode

USB-A 10G x2
- Max 10Gbps per port, 2 ports share max 10Gbps with Type-C data port
- Max 900mA downstream charging per port

USB-C 10G x1
- Max 10Gbps data transmission, shares max 10Gbps with 2 blue core USB-A ports
- Max 1.5A downstream charging

USB-A 5G x1
- Max 5Gbps data transmission
- Max 900mA downstream charging

USB-A Quick Charging Port x1 (red core)
- USB Quick Charging can work only when the DC or PD power supplies more than 15V.
- This port is for smart charging, not for data transmission
- Support the following charging protocol
- 1) Support QC3.0 and QC2.0 5V/9V/12V
- 2 Support Apple 2.4A
- 3) Support Samsung AFC 5V/9V
- 4) Support Hi Silicon FCP 5V/9V

RJ45
- Support Gigabit Ethernet,10M/100M/1000M
- Support Wake-On-LAN
- Support full duplex flow control
- Light indicator indicates the state, no light when no Internet connected, orange light turns on when network connection is established, green light flashes when transmitting data.

3.5mm audio port x1
- Support phone out with digital audio max 96KHz/24bit sampling rate
- Support Mic in with digital audio max 96KHz/24bit sampling rate
- Support CTIA&OMTP auto detection

Toslink SPDIF portx1
- Support digital audio max 96KHz/24bit sampling rate

Power (dual power supplies)

Power source 1: Type-C PD Charging
- Support max 100W PD charging
- Support PD3.0 Fast Role Swap, the connected device will not get disconnected while plugging in and out PD Adapter
- Support smart power which allows to distribute power according to actual consumption of the connected devices, making full use of supplied power

Power source 2: DC Jack
- Support max 120W(20.5v/5.85A) power in
- Support smart power which allows to distribute power according to actual consumption of the connected devices, the host can get power ranging from 60w to 100w

Video: HDMI x2, DP x1, VGA x1
- Support to output 3 videos (2 HDMI+VGA or 2 HDMI+DP) simultaneously under both SST and MST mode , DP and VGA are alternative (DP is prior to VGA when 2 ports are connected simultaneously)
- 3 videos share max 16.2Gbps bandwidth
- DP and HDMI support RGB 4:4:4/ YCbCr 4:4:4/ YCbCr 4:2:2
- DP and HDMI support deep color 8bit, 10bit
- DP and HDMI support HDR
- DP and HDMI support HDCP2.2&1.4
- DisplayPort supports DP++ which enables to connect a passive DP to HDMI port to connect HDMI display.
- When one video port is connected, support HDMI max 4K/60Hz, DP max 4K/60Hz, VGA max 1920x1200/60Hz

Working on Windows system:
- Support to output dual videos (max 2x4k/30Hz) or triple displays(max 4K/30Hz+2x1080P/60Hz) simultaneously under MST mode (output different pictures)

Working on Mac System:
- Support dual max 4K/60Hz or triple max 4K/60Hz under SST mode (output the same picture)

Note:
1) To achieve the above max resolution of each port, the connected host should support DP1.4 Alt mode. The above resolution will be decreased if the host only support DP1.2 due to bandwidth limitation
2) The above resolution combination is for reference, the actual video output resolution depends on the connected host and displays

Warranty

Warranty	2 Year
Mechanical	
Weight	558g
Size	13,9 x 9 x 4.4 cm / 5.47 x 3.54 x 1.73“
Environmental	
Operating Temperature	0 °C to +45 °C
Operating Humidity	10% to 85 % RH (no condensation)
Storage Temperature	-10 °C to +70 °C
Storage Humidity	5% to 90 % RH (no condensation)
Regulatory Approvals	
Certifications	FCC,CE
Power	
Standby Power Consumption	≤3 W
PD Charging	Up to 100W
DC Jack	Max 120W (60-100w for host)

OPERATION NOTE
- After connecting to the host, the product and the white light will turn on by default.Press the power button,the product and the white light will be turn off.The keystroke interval should be greater than 2 seconds.
- Audio Graphics card can be switched among PC, DP Alt mode port connected display and the DOCK. If Audio Graphics card is switched to the docking, no audio will be output from display when headset is connected.

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:
- CSV-1568 Docking Station
- PowerSupply. Input: 100-110/240VAC. Output: up to 120W
- 1x USB Type-C cable connection to Host 1m / 3.28ft
- Detachable stand
- Quick Install Guide

Warning Safe Usage: Only to be used at altitude 2000 meters/6562 feet and below.