j5create

USB-C™ Triple Display Docking Station

JCD543/JCD543P

Datasheet

DisplayPort™ Alt Mode / USB™ Power Delivery Compatible

(JCD543P)

Introduction

The j5create USB-C™ Triple Display Docking Station provides extra connectivity from your computer and extends to up to three monitors through HDMI™, DisplayPort™ and VGA.

This docking station includes a NB stand that assists with heat dissipation and with its flexible USB-C™ cord, keeps in mind the location of the USB-C™ port on your device, ensuring an easy connection.

These multi-adapters allow you to add an additional USB™ 3.1/SD™/microSD™ computer peripheral, HDMI™/DisplayPort™/VGA monitor and Gigabit Ethernet through your USB™ port.

One of the USB™ Type-A ports supports fast charging BC1.2 for a smart phone, tablet or iPad®.

The USB-C™ port supports power delivery 3.0, allowing you to keep charging your notebook or smart phone while using the adapter.

USB-C™ is the new standard for connecting PC s and laptops and will eventually replace all current USB™ cables and connectors. This new USB™ standard can be found on laptops, phones, tablets, etc. USB-C™ has a slim and reversible design, so there is no wrong way to plug it in. USB-C™ offers greater power delivery and faster data transfer rates of up to 5 Gbps.

Features

- USB-C™ power delivery 100W pass-through
- USB-C™ downstream port Gen 1 5G x 1
- Power delivery adapter in port x1
- USB™ Type-A downstream port Gen 1 5G x 3
- DisplayPort™ Alt mode supported
- DisplayPort™/HDMI™ output 4K @ 30 Hz
- USB™ graphic HDMI™resolution 4K @ 30 Hz
- VGA Resolution 1920 x 1080 dual output
- RJ45 Gigabit Ethernet
- SD™/microSD™ card slots allow for external memory access
- Combo audio jack mic/speaker
- Cable length 1.5 ft/45 cm

System Requirements

- Available USB-C™ DisplayPort™ Alt mode
- Available USB-C™ port (USB™ 3.0 is recommended)
- Available USB™ power delivery over USB-C™ to support upstream charging
- 4K capable graphics card
- Microsoft® Windows® 10/ 8.1/ 7 (32-bit or 64-bit)
- macOS® 10.8 or later

Notes

If you are using a high-powered USB™ device, attach the USB-C™ power adapter to the power delivery port to ensure maximum performance.

To ensure files copy completely, do not remove the USB-C™ power adapter while copying files. For maximum performance, use a computer and USB-C™ power adapter equipped with PD 3.0.

Extended Monitor System Requirements

- One 2K (2048 x 1152 @ 60 Hz) full-screen video playback ☐
  CPU: Intel® Core™ i5 Quad Core
  RAM: 4 GB memory or higher
- Two 2K (2048 x 1152 @ 60 Hz) full-screen video playback ☐
  CPU: Intel® Core™ i7 Quad Core
- RAM: 8 GB memory or higher
- ※ Higher processor recommended for multi-displays and optimal Performance.

Package Contents

- ✧ USB-C™ Triple Display Docking Station
- ✧ Quick Installation Guide
- ✧ 90W USB-C™ Power Adapter (JCD543P)

Physical Specifications

Interface	
Host Interface	USB-C™ male connector with cable
Video Interface	HDMI™ female connector x 2 DisplayPort™ female connector x 1 VGA female connector x 1
USB-C™ Port	USB-C™ downstream port female connector x 1 USB-C™ power in port female connector x1
Ethernet Port	RJ45 female connector (Gigabit Ethernet) x 1
USB™ Port	USB™ Type-A 3.1 5G female connector x 3
Card Slots	SD™ 3.0 x 1 Slot microSD™ 3.0 x 1 Slot
Combo Audio Jack	Microphone and speaker

Power	
Power Mode	Bus-powered or self-powered

Functions		
DisplayPort™ Alt Mode	DisplayPort™	Display resolution: 4K @ 30 Hz
	HDMI™	
HDMI™		Display resolution: 4K @ 30 Hz
VGA		Display resolution: 1920 x 1080 @ 60 Hz
USB-C™		Power delivery 3.0 x 1 USB-C™ 3.1 port x 1
USB™		USB™ Type-A 3.1 port x 3 (USB™ 3.1 Gen 1/5 Gbps) BC 1.2 port x 1
Ethernet		Transfer Rate: 1000 Mbps (Half Duplex)/1000 Mbps (Full Duplex) IEEE: IEEE 802.3az, IEEE 802.3, 802.3u, and 802.3ab, IEEE 802.3x Modes: - Supports Wake on LAN function, suspend mode and remote wakeup via link-change, Magic Packet™ or Microsoft® wakeup frame - Supports IEEE 802.1Q VLAN tagging and 2 VLAN ID filtering
Power (JCD543P)		Input: AC100-240V 50/60 Hz 2.35A USB-C™ Output: DC5-20V 5A USB™ Type-A Output: DC 5V 2A

JCD543 Physical Specifications	
Dimensions	Main body: 3.24 (W) x 0.92 (H) x 13.78 (D) in. 82.5 (W) x 23.4 (H) x 350 (D) mm USB-C™ cable length: 1.5 ft/450 mm

Weight	Main body: Approximately: 0.66 lbs./300g
JCD543P Physical Specifications	
Dimensions	Main body: 3.24 (W) x 0.92 (H) x 13.78(D) in. 82.5(W) x 23.4 (H) x 350(D) mm USB-C™ cable length: 1.5 ft/450 mm 90W USB-C™ Power Adapter: 5.08 (W) x 2.32 (H) x 0.54 (D) in. 129 (W) x 59 (H) x 26(D) mm
Weight	Main body: Approximately: 0.66 lbs./300g 90W USB-C™ Power Adapter: Approximately: 0.94 lbs./427 g
Environmental	
Storage Temperature	-10 – 65°C
Storage Humidity	< 85% non-condensing
Operation Temperature	0 – 40°C
Operation Humidity	< 85% non-condensing

REGULATORY COMPLIANCE

FCC
This equipment has been tested and found to comply with FC C Part 15 Subpart B § 15.109/15.107
C lass B.

Operation is subject to the following two conditions:
• This device may not cause harmful interference
• This device must accept any interference, including interference that may cause undesired
operation of the device.

CE
This equipment is in compliance with the requirements of the following regulations:
EN 55022 C lass B (2006),
EN 55024 (1998+A1 : 2001+ A2:2003), (IEC /EN 61000-4-2 (1995+A1:1998+A2:2001)/-3(2006)

RCM
This equipment is in compliance with the requirements of the following regulations:
Australian/New Zealand Standard
AS/NZS C ISPR 22:2009/A1:2010 Class B

Disclaimer
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any representations or warranties (implied or otherwise) regarding the accuracy and completeness of
this document and shall in no event be liable for any loss of profit or any commercial damage,
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document may be reproduced or transmitted in any form by any means, electronic or mechanical,
including photocopying, recording or information recording and retrieval systems without the
expressed written permission of the manufacturer.

Limited Warranty

j5create offers a limited 2-year warranty. User's wear & tear damage is not included. The user shall call or email j5create customer service with the defect information of the product and obtain a return authorization number. Users are responsible for one-way return freight cost and we will take care of one-way freight back. In order to obtain a return authorization number, users should have the following information handy when calling or emailing the service team:

(i) a copy of the original purchase invoice to verify your warranty
(ii) a product serial number
(iii) a description of the problem
(iv) customer's name, address and telephone number

j5create does not warrant that the operation of the product will be uninterrupted or error-free. j5create is not responsible for damage arising from failure to follow instructions relating to the product's use. This warranty does not apply to: (a) consumable parts, unless damage has occurred due to a defect in materials or workmanship; (b) cosmetic damage, including but not limited to scratches, dents and broken plastic on ports; (c) damage caused by use with non-j5create products; (d) damage caused by natural disasters (flood, fire, earthquake, lighting strike, typhoon etc.,); (e) damage caused by human misuse (lost, accident, abuse, misuse or other external causes); (f) damage caused by operating the product outside the permitted or intended uses described by j5create; (g) damage caused by service (including upgrades and expansions) performed by anyone who is not a representative of j5create or a j5create Authorized Service Provider; (h) a product or part that has been modified to alter functionality or capability without the written permission of j5create; or (i) if any j5create serial number on the product has been removed or defaced. If such a situation occurs, j5create will calculate the cost of materials and repair for your reference. This warranty is given by j5create in lieu of any other warranties expressed or implied.