



## CCV50PB

USB-C Portable Mini Dock with  
USB3.0 / Gigabit Ethernet / VGA / HDMI  
/ Power Charging



### Introduction

SUNIX portable Mini Dock (CCV50PB) offers the combined functionality of a 4-in-1 USB3.0 device docking station, converting a single USB-C port into multiple connection ports, including a HDMI (video & audio), VGA, Gigabit Ethernet network, and USB 3.0 connectivity. There's no need to plug in multiple cables every time you return to your desk, making easy to connect your USB Type-C equipped laptop to a complete workstation.

HDMI/VGA/Ethernet/USB3.0 connects your USB-C equipped mobile computer to an external display with your choice of HDMI or VGA outputs. You can also connect to the internet and all your necessary external USB peripherals via Ethernet and USB 3.0 ports. With USB Power Delivery feature, it enables the maximum functionality of USB by providing more flexible power delivery along with data over an USB Type-C tethered cable. This small, multiple-interfaces, tethered cable included, compact dock will replace up to 3 dongles, leaving you more space in your bag and on your desk. It's compatible with major Windows®-based PC, Apple® MAC®-OS, and Google® Chrome operation system.

### Features

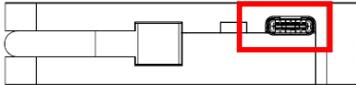
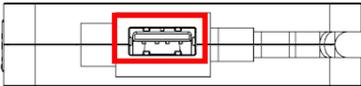
- One USB Type-C connection to extend video and Ethernet from your Notebook PC accessories.
- Compliant with VESA DisplayPort Alternate Mode for USB Type-C Standard Rev1.0.
- Supports resolution VGA outputs with 1080P or 1920x1200@60Hz
- Downstream USB 3.0 port data transfer speed up to 5G for SuperSpeed devices connection.
- Compatible with Gigabit Ethernet networks and powered via USB.
- Supports USB Power Delivery 2.0 that deliveries power along with data over a tethered USB-C cable.
- Drivers free under Apple MAC, Google Chromebook, and Microsoft operation systems.
- Certified by Electromagnetic Compatibility (CE, FCC, VCCI, C-Tick, BSMI) and RoHS approval.

# Specifications

## Hardware

<b>Model</b>	CCV50PB
<b>Description</b>	USB-C Portable Mini Dock with USB3.0 / Ethernet / VGA / HDMI / Power Charging
<b>USB Standard</b>	USB 3.1 Gen1 Controller Interface (xHCI) Rev1.1
<b>Input Interface</b>	USB Type-C USB Type-C Alternate Mode
<b>Output Interface</b>	USB Power Charging Type-C x 1-port USB3.0 Type-A x 1-port Gigabit Ethernet x 1-port VGA(RGB) x 1-port HDMI Ver1.4 x 1-port
<b>LED indicator</b>	Green for USB Link Ready with USB Bus Power Mode Blue for USB Power Charging Mode
<b>Power Consumption</b>	USB Bus Power 2W @ 5VDC (board only without power output to device)

## USB Communication

<b>Interface</b>	USB 3.1 Gen1 Controller Interface (xHCI) Rev1.1
<b>Output USB Port</b>	USB Type-A Female Receptacle USB3.0(5Gpbs), High Speed(480Mbps), Full Speed(12Mbps), Low Speed (1.5Mbps)
<b>No. of Port</b>	1-port
<b>Power source</b>	<ol style="list-style-type: none"> <li>1. USB Bus-Power 5V@1.5A from USB Type-C</li> <li>2. USB Power Delivery 5/20VDC</li> </ol> 
<b>Power output</b>	USB port supports BC charging v1.2 +5VDC / Maximum 1.5A 
<b>Over Current Protection</b>	USB Type-A Port: +5VDC

Note: Total power output capacity will be limited by system power supply.

## Ethernet Communication

<b>Standard</b>	IEEE 802.3/ 802.3u/ 802.3ab
<b>Interface</b>	Gigabit Ethernet 10/100/1000 Mbps with Auto MDIX
<b>PCB Connector</b>	RJ45 with LED Indication

## Video and Audio Communication

<b>Mode</b>	Extend mode, Mirror mode, Screen Rotation mode		
<b>Standard</b>	HDMI Ver1.4b VGA		
<b>Video</b>	Max resolution up to 1920x1200 @ 60Hz <i>Note: HDMI and VGA video output will NOT work synchronously.</i>		
<b>Resolution Support</b>	<b>Resolution</b>	<b>Name</b>	<b>Refresh Rate</b>
	640x480	VGA	60
	800x600	SVGA	60
	1024x768	XGA	60
	1280x720	720p	60
	1280x768	WXGA+	60
	1280x800	WXGA	60
	1280x1024	SXGA	60
	1366x768	WXGA+	60
	1400x1050	SXGA+	60
	1600x900	-	60
	1600x1200	UXGA	60
	1680x1050	WSXGA+	60
	1920x1080	1080p	60
1920x1200	WUXGA	60	
<b>Audio</b>	Digital Audio output over HDMI connectivity <i>Note: VGA does not support audio output</i>		
<b>PCB Connector</b>	Standard HDMI Female x 1-port VGA D-Sub 15-pin Female x 1-port		

## Driver Support (Driver Free)

<b>Windows</b>	Windows 10 (32/64-bit) or above
<b>APPLE MAC</b>	MAC OS X 10.10 (Yosemite) or above
<b>Google Chrome</b>	Chrome OS Version 42.x or above

## Environment

<b>Operation Temperature</b>	0 to 60°C (32 to 140°F)
<b>Operation Humidity</b>	5 to 95% RH
<b>Storage Temperature</b>	-20 to 70°C (-4 to 158°F)

## Standards and Certifications

<b>EMC</b>	CE, FCC, C-Tick, VCCI, BSMI, Class B Standard
<b>Green</b>	RoHS, CRoHS, WEEE

## Physical Characteristics

<b>Weight</b>	50g (1.8oz)
<b>Case Material</b>	ABS (plastic)
<b>Mechanical Drawings (unit = mm)</b>	<p>102(L)x66(W)x16(H) mm Tethered Cable length: 150mm</p>

## Package

- CCV50PB - USB-C Portable Mini Dock with USB3.0 / Ethernet / VGA / HDMI / Power Charging
- Quick Installation Guide

## Product Family

- CCV50PB - USB-C Portable Mini Dock with USB3.0 / Ethernet / VGA / HDMI / Power Charging
- C0V50PB - USB-C Portable Mini Dock with USB3.0 / Gigabit Ethernet / VGA

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