USB C PD 50W Portable Power Dock Adapter for Notebooks with Built-In HDMI Output

Gearmo
Version 1.0
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Model # GM-PDU31CNA

Product Manual

REVISION HISTORY

Revision	Date	Author	Comments
1.0	12/05/2017	Gearmo	Gearmo Manual

ABOUT THIS DOCUMENT

This product manual outlines installation and features of the GM-PDU31CNA USB C PD 50W Portable Power Dock Adapter for Notebooks with Built-In HDMI Output.

SCOPE

The scope of this manual is to give the user of the product an understanding of its use with detailed diagrams and verbiage. The manual allows the users to apply the product to their application.

INTENDED AUDIENCE

This product is intended for use in home or office applications where power delivery and charging to notebooks, laptops, cell phones or other is needed.

PRODUCT SUPPORT

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1. INTRODUCTION

The Gearmo GM-PDU31CNA USB-C PD Notebook Power Dock adapter is meant to replace your existing bulky power block that your notebook computer ships with. It works with any notebook that uses a type-C port connection for its power delivery method. The USB-C PD notebook power dock is a multi functional adapter with charging capability. It can be used as a USB 3.1 Gen1 two port hub through its USB-A ports and a USB 3.1 Gen1 Type-C port, all with up to 5Gbps data transmission. The adapter also allows for an HDMI connection through its HDMI A Type output port. Power is supplied from a 100V~240V AC wall outlet.

WEIGHT	0.487 lbs.
UPC	045079159570
WARRANTY	1 year from date of purchase
COLOR	White
PORTS	Type-A HDMI 1.4 Female x1, USB 3.1 Type-C x1, USB 3.1 Type-C PD x1, USB 3.1 Type-A x2

1.1 Features

- 100/240VAC Universal AC input.
- (Up-stream) USB3.1 Gen1, type C, PD
- Supported PD Profiles: 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/2.25A
- (Down-stream) USB3.1 Gen1, type A x 2 5V/1.5A, USB 3.1 Gen1 type C x 1, 5V/3A
- USB Battery Charging 1.2 Specification
- Charging Modes – SDP, CDP, DCP.
- Supports Apple, Samsung Galaxy fast charging on Type-C PD port.
- HDMI A type output port.
- Up to 192kHz audio frame rate and up to 24-bit audio sample size
- Electrical Protections: Over-Current, Over-Voltage, Over Temperature, Over-Power

1.2 Specifications

Power	
Power Input	AC 100-240V
USB-A Output	5V/1.5A
USB-C PD	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/2.25A
Physical	
Construction	Plastic
Color	White
Dimensions	80mm x 61mm x 26mm
Weight	0.487 lbs.

Interface	
USB	(2) USB Type-A / (2) USB Type-C
HDMI	HDMI 1.4
Charging	
Charging Notebook/Laptop	USB Type-C PD
Charging Cell Phones/Other	USB Type-A, USB Type-C
Fast Charging	Only through USB Type-C PD port
HDMI	
Output	Female HDMI 1.4
Frame Rate	192kHz audio
Audio Sample Size	Up to 24-bit
Video	Device dependant
Regulatory Approvals	
Certifications	UL / FCC-Class B RoHS, GS/CE

1.3   Package Contents

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- (1) 50W Portable Power Dock Adapter
- (1) 1.5m AC Power Cord
- (1) 45cm USB-C to C Cable

1.4   Power Dock Operation

Charge laptop and portable devices at the same time, as well as transferring data; simultaneously playing movies stored on a connected external drive displaying High-Def video output.
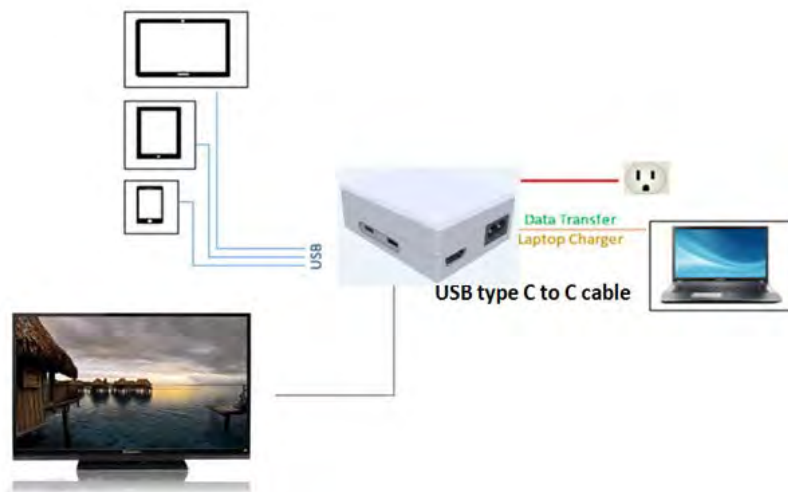

Figure 1

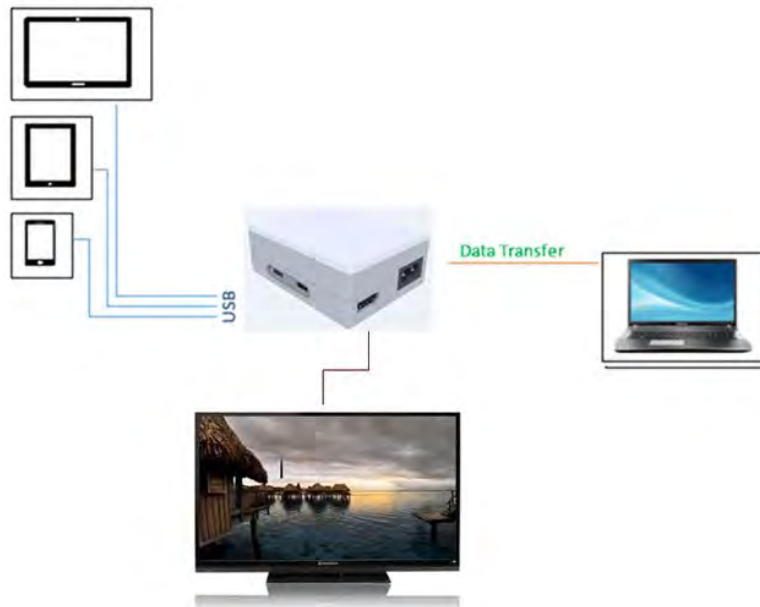Works as a BUS POWERED USB 3.1 GEN1 Hub + HDMI PORT.

Figure 2

Using as a UNIVERSAL USB POWER CHARGER or a UNIVERSAL NOTEBOOK TYPE C POWER ADAPTER.

Figure 3

1.5 Notes, FAQ, Warnings, & Safety

Note	N/A

FAQ	1. How can I know if the device is running properly?

FAQ

1. How can I know if the device is running properly?

Answer:
- When the device is connected to AC power, or notebook (upstream type C port), confirm whether the power supply is working
- Confirm whether the USB-C port of the notebook is plugged in is correctly
- Confirm whether the product is using with the originally bundled USB cable.

2. Data cannot be read

Answer:
- Please confirm that the data source is normal.
- Please confirm whether the product is using with the originally bundled USB C cable.
- Please confirm whether the interface of USB C that notebook is plugged in is correct.

3. HDMI screen does not have image

Answer:
- Connect Notebook to our product first, then connect to HDMI port, Notebook screen will jump to adjust the resolution, and then the screen will show the image. Otherwise check whether the product is equipped with type C connector.
- Confirm whether the product is using with the originally bundled USB C cable. Whether the HDMI port is connected properly.
- Confirm whether the TV is working, HDMI cable is working.
- Type C to video port (such as VGA/HDMI/DVI/DP etc.) is not supported.
- Driver may need to be installed when using the USB Type A to video port.

4. Phone charging on USB A & C

Answer:
- Confirm whether the power supply is working.
- Confirm whether the product is using with the originally bundled USB cable.

Warning	N/A

Safety	Please read the instructions and precautions for the first time. • Do not drop, break open, disassemble, change or try to repair the product. • Do not leave the body in wet or humid conditions, direct sunlight or high temperature environments. • Under normal temperature the portable power dock will produce heat, in order to avoid the accumulation of heat, it is recommended to use in an open space. If there is abnormal heat present, please stop using the device. • Do not use liquid cleaners or similar chemicals. Especially directly sprayed on the connectors of the product. • Please keep away from children and confirm that the user has read the instructions

2. PORT ILLUSTRATION

Figure 4