



Rocstor RD14 USB4® 40Gbps
Portable Dock - Aluminum Silver



User Manual
Y10P025-S1

Important Safety Notice

WARNING:

Please follow these safety instructions. Failure to do so may result damages or injury. It is normal that the device becomes very warm during use.

Please note that:

Continuous contact with warm surfaces for extended time may cause discomfort or injury. In order to reduce the possibility of overheating or heat-related injuries, always allow needed ventilation around the device and use care when handling it. Avoid instances where your skin is in extended contact with the device when plugged into the host computer. It is not recommended to sleep with the device when plugged into a host computer. Avoid placing the device under a pillow, blanket, or your body when connected to a host computer. If you have a medical condition that affects your ability to detect heat against the body, extra care should be used. Never use the device in locations with water, such as a sink, bathtub, or shower stall. Never connect or disconnect the device with wet hands.

Introduction

Rocstor introduces a cutting-edge USB4 dock, delivering unparalleled efficiency and versatility in I/O solutions with speeds of up to 40Gb/s for seamless data and video transfer. This innovative dock empowers you to link USB4 devices across six cascading levels. Its Type-C interface boasts a remarkable 8K/30Hz video output capacity and facilitates swift 10G data transmission. With dual video ports, you can effortlessly connect two displays simultaneously, each supporting dual 4K/60Hz output, perfect for multitasking on TBT4/USB4 Windows PC setups. The RJ45 port offers a maximum bandwidth of 2.5G, ensuring swift networking capabilities. Furthermore, the USB ports deliver rapid 10G data transmission. Notably, its intelligent power allocation feature optimizes energy distribution based on connected device power consumption, leveraging external power supply efficiently. Engineered for compatibility with USB4 and Thunderbolt hosts, this dock represents the pinnacle of connectivity solutions.

Package Contents

Before utilizing this unit, kindly inspect the packaging to ensure the following items are included:

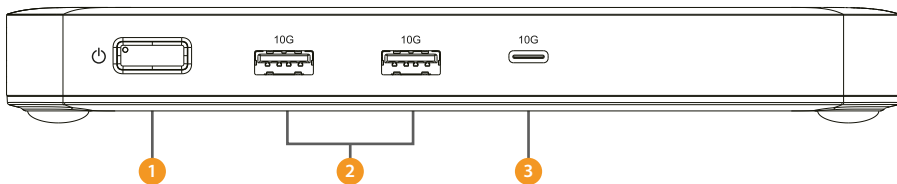
- Main Unit x1
- User Manual x1
- 134W AC Power Adapter x1
- USB4 Cable(1m) x1

Features

- Adopting Hoover Ridge solution.
- Slim, compact aluminum design.
- Designed for USB4 and Thunderbolt hosts.
- Supports USB4 max 40Gbps for high-speed data and outstanding video transfer, compatible with TB4, TBT3, and DP Alt mode protocols.
- Type-C close to USB-4 supports max 8K/30Hz and 10G data transmission.
- DP supports max 8K/30Hz per port.
- Among all three video ports, it allows outputting max 2 displays (dual 4K/60Hz) simultaneously with different pictures.
- USB ports support max 10G data transmission.
- RJ45 supports 10M/100M/1000M/2.5G bandwidth.
- Self-powered from DC power adapter with max 96W for host, max 124W for host and Dock.
- Supports smart power, enabling flexible distribution of power to PC and Hub in real-time according to the consumption of connected devices.
- Compatibility Details:
 - Windows 10 or above version supported USB4 and Thunderbolt host.
 - Mac OS 11 or above version supported USB4 and Thunderbolt host.

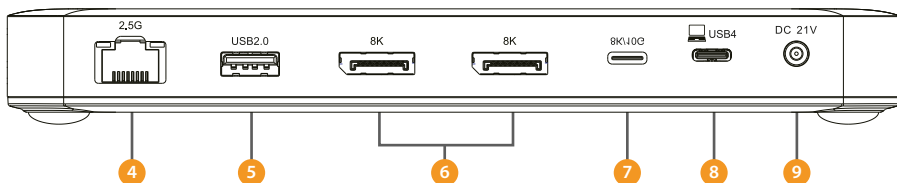
Panel Description

Front Panel



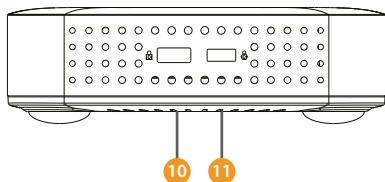
- 1 Power Switch
- 2 USB-A 10G
- 3 USB-C 10G

Back Panel



- 4 RJ45 Max 2.5G
- 5 USB-A 2.0
- 6 DP Display Max 8K/30Hz Per Port
- 7 USB-C 8K/10G
- 8 USB4 (To Host)
- 9 21V Power Supply

Side Panel



- 10 Kensington Anti-Theft Lock
- 11 Standard Nano Anti-Theft Lock

Port Specs

USB4 Receptacle (to host)



- Adopting Hoover Ridge solution with max 40Gbps for high speed data and outstanding video transfer
- Compatible with TB4, TBT3, DP Alt mode protocol
- Supports max 96W, 5V/9V/15V@3A, 20V@4.8A Host charging

USB3.2 Type-A Gen2 X2



- Compliant with USB3.2 Gen 2 with max 10Gbps data transmission, downward compatible with lower versions
- Max 900mA downstream charging
- Supports short-circuit, over-current protection

USB-C X1 (8K/10G)



- Supports DP Alt mode protocol
- Supports max 8K/30Hz video output
- Supports max 10G data transmission
- Max 1.5A downstream charging
- Supports short-circuit, over-current protection

USB-A 2.0 X1



- Support USB2.0 up to 480Mbps
- Max 500mA downstream charging
- Supports short-circuit, over-current protection

DisplayPort X2



- Supports max 8K/30Hz per port
- Supports DP1.4 Specification
- Supports HDCP
- Supports RGB, YCbCr444, YCbCr422, YCbCr420
- Supports 8/10/12 bit deep color
- Supports HDR

Among all the three ports (including USB-C 10G/8K; DPx2), allow to output max 2 displays with max dual 4K/60Hz or 8K/30Hz+4K/30Hz

RJ45 X1



- Supports 10M/100M/1000M/2.5G bandwidth
- Supports Wake-On-LAN and Wake-On-WAN
- Light indicates the state, no light when no Internet connected, orange light turns on when network connection is established, green light flashes when transmitting data

USB3.2 Type-C Gen2 X1



- Compliant with USB3.2 Gen 2 with max 10Gbps data transmission, downward compatible with lower versions
- Max 1.5A downstream charging
- Supports short-circuit, over-current protection

DC Power Jack X1



- Supports smart charging, dynamically distribute power to PC and Hub according to the requirement of the connected devices
- Used to connect 21V 134W DC power supply.
- Max 124W power for host and the DOCK and 10W is for buffer power
- Max 96W for host charging

Specifications

Input/Output Connector

Upstream	USB4 Receptacle (to host) x1
Downstream	USB-C (8K/10G) x1 DP (8K) x2 USB3.2 Type-C Gen2 x1 USB3.2 Type-A Gen2 x2 USB-A 2.0 x1 RJ45 (2.5G) x1 DC Power Jack (134W) x1

Physical

Size (L-W-H)	7.4x3.1x0.8in - (190x80x22mm)
Weight (Net)	11.7lbs - (332g)

Warranty

Limited Warranty	3 Years
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Environmental

Operating Temperature	0°C to 45°C (32°F to 113°F)
Operating Humidity	10% to 85% RH (no condensation)
Storage Temperature	-10°C to 70°C (14°F to 158°F)
Storage Humidity	5% to 90 % RH (no condensation)

Regulatory Approvals

Certifications	FCC, CE
Power Supply	FCC, CE

Accessories

User Manual	English Version
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Resolution Reference Table

Video Resolution for TB4/USB4/TB3 Host(DP1.4)			
	USB-C port	DP	DP
Single Port Connected	8K/30Hz or 4K/144Hz	NC	NC
	NC	8K/30Hz or 4K/144Hz	NC
	NC	NC	8K/30Hz or 4K/144Hz
Dual Port Connected	4K/30Hz	8K/30Hz	NC
	NC	8K/30Hz	4K/30Hz
	8K/30Hz	NC	4K/30Hz
Note: Only 2 Video streams max, first come first served			
Video Resolution for TB3 Host(DP1.2)			
	USB-C port	DP	DP
Single Port Connected	4K/60Hz	NC	NC
	NC	4K/60Hz	NC
	NC	NC	4K/60Hz
Dual Port Connected	4K/60Hz	4K/60Hz	NC
	NC	4K/60Hz	4K/60Hz
	4K/60Hz	NC	4K/60Hz
Note: Only 2 Video streams max, first come first served			
Video Resolution for MFDH Host(DP1.4)			
	USB-C port	DP	DP
Single Port Connected	4K/60Hz	NC	NC
	NC	4K/60Hz	NC
	NC	NC	4K/60Hz
Note: Only Support 1 Video stream on MFDH Host, first come first served			

Resolution Reference Table (Cont.)

Video Resolution for MFDP Host(DP1.2)			
	USB-C port	DP	DP
Single Port Connected	4K/30Hz	NC	NC
	NC	4K/30Hz	NC
	NC	NC	4K/30Hz
Note: Only Support 1 Video stream on MFDP Host, first come first served			
Video Resolution for M1/M2 Host			
	USB-C port	DP	DP
Single Port Connected	4K/144Hz	NC	NC
	NC	4K/144Hz	NC
	NC	NC	4K/144Hz
Note: Only Support 1 Video stream on M1/M2 Host			

Connection Diagram (Front Panel)



Connection Diagram (Back Panel)



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