



ThunderConnect RD12

Thunderbolt 4 Docking Station

PN:Y10P036-S1

The Rocstor ThunderConnect RD12 redefines the boundaries of Thunderbolt™ 4 technology, emerging as the most powerful and advanced docking station in the market. Engineered for professionals and tech enthusiasts alike, the RD12 delivers an unmatched I/O solution, boasting data and video transfer speeds of up to 40Gb/s. Its Thunderbolt 4 port revolutionizes workspace connectivity, enabling you to cascade Thunderbolt devices across six levels and connect to one 8K or two 4K/60Hz monitors effortlessly.

Unparalleled Display Flexibility: With the ThunderConnect RD12, experience the ultimate visual workspace by connecting up to three displays simultaneously, with Display 1 & 2 supporting 4K@60Hz, and a third display at 4K@30Hz under MST. Additionally, a fourth display connection through the Thunderbolt 4 port supports resolutions up to 8K, offering unmatched clarity and detail for your projects and presentations.

High-Speed Connections and Smart Power Management: Streamline your workflow with three USB Type-A ports, including two that offer data transmission speeds of up to 10Gbps, catering to your need for speed and efficiency. The USB-C™ Power Delivery (PD) port not only supports high-speed data transmission but also charges your mobile devices with up to 30W of power. Furthermore, the RD12's smart power function intelligently distributes power based on the connected devices' consumption, optimizing the use of your external power supply.

Robust and Versatile Networking: Achieve faster and more reliable network connections with the Ethernet RJ45 port, supporting bandwidths of up to 2.5G. Whether you're streaming high-definition content, engaging in competitive online gaming, or transferring large files, the RD12 ensures that your connectivity is both swift and stable.

Compatibility and Design: Designed with a keen eye for detail, the ThunderConnect RD12 is not only sleek but also incredibly compact, making it an ideal addition to any workspace. It is perfectly tailored for Thunderbolt 4/USB4 based PCs and is also compatible with TBT3/DP-Alt-mode PCs, ensuring broad compatibility and seamless integration into your digital life.



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Power Delivery (Power Provided)	100W Power Delivery 150W Power Supply"
Video Resolution	"4K - 60 Hz (Single & Dual Display) 4K - 30 Hz (Tripple Display) MST Mode Max. 8K (Thunderbolt 4 Quad Display)"
Interfaces	2 x DisplayPort 1.4 2 x HDMI 2.0 2 x Thunderbolt 4 1x USB Type-C Gen2 Max 10Gbps 2x USB Type-A Gen2 Max 10Gbps 1x USB Type-A 5Gbps 1x SD 4.0 Max 312MBps 1x TF Slot (SD & TF Work Simultaneously) 1x 3.5mm Audio Port 1x 2.5G RJ45 Ethernet Bandwidth (10M/100M/1000M/2.5G). (W.O.N)"
OS Required	Windows 10 Windows 11 MacOS"
Security Slot	K-Slot 1x Nano Slot Security lock slot (cable lock sold separately)"
Upstream	Thunderbolt™ 4 Female x1 (to host)
Downstream	Thunderbolt™ 4 Female x1 (to host) Thunderbolt™ 4 Female x2 DP x2 HDMI x2 USB-C x1(10G or PD 30W output) USB-A x2(10G) USB-A x1(5G) SD/TF 4.0 x1 RJ45 x1(2.5G) 3.5mm Audio JACK x1(384KHz) Power Jack x1(150W)"



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Thunderbolt 4 Female (to host)

- Supports Thunderbolt 4 up to 40Gbps, compatible with Thunderbolt 3, USB4, DP Alt mode, USB protocol
- Supports TBT4/USB4/TBT3/DP-Alt-mode Hosts
- Supports Windows/Mac OS/Chrome OS
- Supports max 96W, 5V/9V/15V@3A,20V@4.8A Host charging

Thunderbolt 4 downstream port x2

- Supports Thunderbolt 4 up to 40Gbps, compatible with Thunderbolt 3, USB4, DP Alt Mode, USB protocol
- Allows Cascade Thunderbolt devices up to 6 levels
- Supports Max 8K or Dual 4K/60Hz Video
- Each Thunderbolt 4 Port supports 15W downstream charging for connected device

Note: 2 ports do not support PD charging

DisplayPort x2

- Supports up to 8K/30Hz, 4K 60/120/144Hz, 1080P 60/120/144/240Hz
- Supports x1/2/4 lane configuration and 8.1G/5.4G/2.7G/1.62 Gbps per lane
- Supports HDCP v1.4/2.2
- Supports HDR
- Supports RGB, YCC444, YCC422, YCC420
- Supports 6/8/10/12 bit color depth

HDMI x2

- Supports 4K 30/60Hz, 1080P 60/120/144/240Hz;
- Supports HDCP v1.4/2.2
- Supports HDR
- Supports RGB, YCC444, YCC422, YCC420
- Supports 8/10/12 bit deep color

Stream1: HDMI 1(close to Thunderbolt 4 downstream port)

Stream2: DisplayPort1

Stream3: HDMI 2 or DisplayPort 2(close to RJ45)

Among all video ports, Port one supports max 8K/30Hz, or 4K/60Hz+4K/60Hz+4K/30Hz with different pictures on windows system"

USB-C PD&Data x1

- Compliant with USB3.2 Gen 2 with max 10Gbps data transmission, downward compatible with lower versions
- Supports PD3.0 max 30W output to charging for the mobile phone
- Support 5V/3A, 9V/3A, 15V/2A, 20V/1.5A output"

USB3.2 Type-A Gen2 x2

- Compliant with USB3.2 Gen 2 with max 10Gbps data transmission, downward compatible with lower versions
- The port (close to USB-C) support max 1.5A downstream charging, another one support max 900mA downstream charging"



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USB3.2 Type-A Gen1 x1

- Compliant with USB3.2 Gen 1 with max 5Gbps data transmission, downward compatible with lower versions
- Max 900mA downstream charging per port

SD4.0/TF 4.0

- SD/TF supports SD4.0 with max 312MBps
- Supports 2 card slots to work simultaneously

RJ45 x1

- Supports 10M/100M/1000M/2.5G bandwidth
- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3bz, support IEEE 802.3az-2010(EEE), IEEE 802.1P, IEEE 802.1Q, IEEE 802.3x
- Supports Wake-On-LAN and Wake-On-WAN
- LED indicator: 1) No light: power off. 2) Orange: power on. 3) Blue: Host connection OK.

3.5mm Audio JACK x1

- Supports 16/24/32-bit, 8/16/22.05/24/32/44.1/48/96/176.4/192/384KHz Sample Rate
- Support Stereo output and microphone input
- Automatic detection switch to CTIA/MTP mode

DC Power Jack x1

- Support smart charging, dynamically distribute power to PC and Hub according to the requirement of the connected devices
- Used to connect 20V 150W DC power supply. Compatible with 20V ~ 22V, 150W or higher power DC power supply
- Max 140W power for host and the DOCK
- Max 96W for host charging"

Power Switch & Power indicator LED

- The product turns off by default. After connecting the power supply, you need to press the switch to enable the product to work.
- The LED is bright orange when the product is powered on and bright blue when the product is connected to the host."



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