Thunderbolt 4 Dock - 8K HDMI and Thunderbolt, USB-C and USB-A Ports, 2.5 GbE, 96W PD Charging

MODEL NUMBER: **MTB4-DOCK01A**







Turns your MacBook Pro or Windows laptop into a multiport workstation capable of transmitting 8K video.

Features

Thunderbolt 4 Dock Turns Your MacBook Pro into a Multiport 8K Workstation
This Thunderbolt 4 docking station dramatically expands the potential of your MacBook Pro or Windows laptop by adding 12 ports to its Thunderbolt 4 port. Not only does the MTB4-DOCK01A allow you to transmit 8K @ 60 Hz or 4K @ 144 Hz video to one display, 8K and 4K video to two displays or 4K video to two displays, you can also add USB peripherals, record a podcast, connect to a 2.5 Gb Ethernet network, charge your laptop and more, all at the same time.

Supports DisplayPort Alternate Mode for Transmitting Audio/Video Signals
By connecting the included Thunderbolt 4 cable to a source device that supports DisplayPort Alt Mode, you can output 8K/4K video and digital audio to a compatible monitor, television or projector without installing special software drivers.

Thunderbolt 4 Supports Blisteringly Fast 40 Gbps Data Transfer Speeds
The included Thunderbolt 4 cable supports bidirectional speeds up to 40 Gbps, which is eight times faster than USB 3.2 Gen 1, four times faster than Thunderbolt 1 and twice as fast as Thunderbolt 2. With dual 20 Gbps channels moving data both directions at the same time, the MTB4-DOCK01A is perfectly suited for 8K and 4K video streaming and editing on two monitors, as well as transferring large files. Because Thunderbolt 4 supports minimum PCIe (PCI Express) data rates of 32 Gbps (twice that of Thunderbolt 3), transferring large RAW video, Photoshop images or CAD files takes hardly any time at all.

DisplayPort Multi-Stream Transport (MST) Allows Connection of Multiple Displays
By connecting the included Thunderbolt 4 cable to a source that supports DisplayPort MST Mode, you may connect two displays simultaneously at resolutions of 8K @ 30 Hz plus 4K @ 60 Hz or both displays at 4K @ 60 Hz. This allows you to display the same image on both monitors, extend your host desktop across both with different windows open on each, or combine both into one large display as a video wall.

Cascade Up to 6 Thunderbolt Devices at Once
The downstream Thunderbolt 4 port lets you cascade Thunderbolt devices up to six levels vertically. It also supports 15W charging, as well as 8K video.

USB Ports Connect Keyboards, Thumb Drives and Other USB Peripherals
Four USB-A hub ports and one USB-C port accept USB peripherals, such as flash drives, mice, keyboards, external hard drives, webcams and printers. The USB-C port and two USB-A ports support

Highlights

- Supports Thunderbolt 4 data speeds up to 40 Gbps between compatible devices
- Transmits 8K or 4K @ 144 Hz, including 8K @ 30 Hz + 4K @ 60 Hz or dual 4K @ 60 Hz
- Allows cascading up to 6 Thunderbolt devices and supports 15W charging
- 3x USB 3.2 Gen 2 and 2x USB 3.2 Gen 1 ports connect storage and other peripherals
- Joins a wired 2.5 Gb Ethernet network when Wi-Fi is unavailable or weak

System Requirements

- Source device with Thunderbolt 4 port that supports DisplayPort MST Mode or USB-C port that supports Multi-Function DisplayPort
- Display device with Thunderbolt 4 or DisplayPort input
- Windows, macOS or Chrome operating system
- Dock must be connected to a Thunderbolt 4-enabled laptop or computer using a Thunderbolt 4 cable to achieve Thunderbolt 4 specifications
- Source, display and cabling must be compatible with 8K standards to achieve 8K specifications

Package Includes

- MTB4-DOCK01A Thunderbolt 4 Dock
- Thunderbolt 4 cable (M/M)
- External power supply (Input: 100–240V, 50/60 Hz, 2.5A; Output: 21V 7.1A) with 3.3 ft. (1 m) cord and NEMA 5-15P plug
- Installation Instructions

USB 3.2 Gen 2 data transfer rates up to 10 Gbps. The other two USB-A ports support USB 3.2 Gen 1 speeds up to 5 Gbps. The USB-C port supports Power Delivery (PD) 3.0 charging up to 30W (5V 3A, 9V 3A, 15V 2A, 20V 1.5A). The USB-A ports support charging up to 900mA (primarily for powering ports).

Accesses a Wired 2.5 Gb Ethernet Network
The RJ45 port offers access to a 2.5 Gbps Ethernet network when Wi-Fi is unavailable or when a wired connection offers faster speeds. Connect using a UTP cable (sold separately), and enjoy true 2.5G Ethernet speeds for fast data transfers.

Connects Stereo Audio Equipment for Recording and Playback
This Thunderbolt 4 docking station has one 3.5 mm mini stereo jack, convenient for connecting speakers, headphones or a microphone to your workstation. You can listen to music or record the latest episode of your podcast.

Allows External Memory Access
The memory card slots support SD 4.0 and TF 4.0 cards for transferring data to and from your connected computer or laptop. Both slots may be used at the same time.

Anti-Theft Locks Protect the Docking Station When You Aren't Around
Connect a user-supplied computer/laptop security cable lock (not included) to one of these ports to protect the dock against theft.

Ready to Use Right from the Package, So You Can Plug and Play Immediately
The plug-and-play Thunderbolt 4 dock is specifically designed for use with the MacBook Pro, Windows laptop or other computer equipped with a Thunderbolt 4 port. It requires no extra software to be downloaded and installed. Simply plug the included 150W power adapter into a standard AC outlet, and connect the included Thunderbolt 4 cable to your computer's Thunderbolt 4 port.

Specifications

OVERVIEW	
UPC Code	037332284976
Product Type	Docking Station
Device Compatibility	Computer; Laptop
Technology	HDMI; Thunderbolt; USB4
Host Connector	THUNDERBOLT 4 (USB-C FEMALE)
VIDEO	
Video Input	THUNDERBOLT 4 (USB-C FEMALE)
Video Output	HDMI (FEMALE); THUNDERBOLT 4 (USB-C FEMALE)
Number of Monitors Supported	2
Video Ports	(2) HDMI (FEMALE); (1) THUNDERBOLT 4 (USB-C FEMALE)
Video Ports Details	Thunderbolt 4; HDCP 1.4; HDCP 2.3

Resolutions Supported	The MTB4-DOCK01A supports the following video resolution outputs:**Thunderbolt 4 / USB4 / Thunderbolt 3 Host (DP 1.4):**Single Output: Thunderbolt 4 (8K/30 Hz or 4K/120Hz), HDMI ports (8K/60 Hz DSC)Dual Output: Thunderbolt 4 (8K/30 Hz) + HDMI (4K/30 Hz), Thunderbolt 4 (4K/60 Hz) + HDMI (8K/30 Hz DSC), HDMI #1 + HDMI #2 (8K/30 Hz DSC + 4K/60 Hz DSC)Note: Only 2 video outputs can be used at once, utilized in order of connection**Thunderbolt 3 Host (DP 1.2):**Single Output: Thunderbolt 4 (4K/60Hz), HDMI ports (4K/60 Hz)Dual Output: Thunderbolt 4 (4K/60 Hz) + HDMI (4K/60 Hz), HDMI #1 + HDMI #2 (4K/60 Hz + 4K/60 Hz)Note: Only 2 video outputs can be used at once, utilized in order of connection**USB-C MFDP Host (DP 1.4):**Single Output: Thunderbolt 4 (4K/60Hz), HDMI ports (8K/30 Hz)Note: Only 1 video output can be used at once, utilized in order of connection**USB-C MFDP Host (DP 1.2):**Single Output: Thunderbolt 4 (4K/30Hz), HDMI ports (4K/30 Hz)Note: Only 1 video output can be used at once, utilized in order of connection
Supported Resolutions	1280x720 (720p); 1920x1080 (1080p); 3840x2160 (4K); 5120x2880 (5K); 7680x4320 (8K)
Max Supported Video Resolution	8K (7680 x 4320) @ 60 Hz (Single Display); 4K (3840 x 2160) @ 60 Hz (Dual Displays)
Extended Mode	Yes
Extended Mode Details	A desktop is able to be extended via the following video output combinations, depending on the video output functionality of the host and display(s) used.**Thunderbolt 4 / USB4 / Thunderbolt 3 Host (DP 1.4):**Single Output: Thunderbolt 4 (8K/30 Hz or 4K/120Hz), HDMI ports (8K/60 Hz DSC)Dual Output: Thunderbolt 4 (8K/30 Hz) + HDMI (4K/30 Hz) Thunderbolt 4 (4K/60 Hz) + HDMI (8K/30 Hz DSC), HDMI #1 + HDMI #2 (8K/30 Hz DSC + 4K/60 Hz DSC)Note: Only 2 video outputs can be used at once, utilized in order of connection**Thunderbolt 3 Host (DP 1.2):**Single Output: Thunderbolt 4 (4K/60Hz), HDMI ports (4K/60 Hz)Dual Output: Thunderbolt 4 (4K/60 Hz) + HDMI (4K/60 Hz), HDMI #1 + HDMI #2 (4K/60 Hz + 4K/60 Hz)Note: Only 2 video outputs can be used at once, utilized in order of connection**USB-C MFDP Host (DP 1.4):**Single Output: Thunderbolt 4 (4K/60Hz), HDMI ports (8K/30 Hz)Note: Only 1 video output can be used at once, utilized in order of connection**USB-C MFDP Host (DP 1.2):**Single Output: Thunderbolt 4 (4K/30Hz), HDMI ports (4K/30 Hz)Note: Only 1 video output can be used at once, utilized in order of connection
Mirror Mode	Yes
Mirror Mode Details	Video output can be mirrored via the following video output combinations, depending on the video output functionality of the host and display(s) used.**Thunderbolt 4 / USB4 / Thunderbolt 3 Host (DP 1.4):**Single Output: Thunderbolt 4 (8K/30 Hz or 4K/120Hz), HDMI ports (8K/60 Hz DSC)Dual Output: Thunderbolt 4 (8K/30 Hz) + HDMI (4K/30 Hz), Thunderbolt 4 (4K/60 Hz) + HDMI (8K/30 Hz DSC), HDMI #1 + HDMI #2 (8K/30 Hz DSC + 4K/60 Hz DSC)Note: Only 2 video outputs can be used at once, utilized in order of connection**Thunderbolt 3 Host (DP 1.2):**Single Output: Thunderbolt 4 (4K/60Hz), HDMI ports (4K/60 Hz)Dual Output: Thunderbolt 4 (4K/60 Hz) + HDMI (4K/60 Hz), HDMI #1 + HDMI #2 (4K/60 Hz + 4K/60 Hz)Note: Only 2 video outputs can be used at once, utilized in order of connection**USB-C MFDP Host (DP 1.4):**Single Output: Thunderbolt 4 (4K/60Hz), HDMI ports (8K/30 Hz)Note: Only 1 video output can be used at once, utilized in order of connection**USB-C MFDP Host (DP 1.2):**Single Output: Thunderbolt 4 (4K/30Hz), HDMI ports (4K/30 Hz)Note: Only 1 video output can be used at once, utilized in order of connection
Max Supported Color Depth	48-bit
HDR Support	Yes
3D Video Supported	Yes
Chroma Sub Sampling	4:4:4
EDID Support	Yes
Bandwidth	40 Gbps
DisplayPort Alt Mode	Yes
DSC Support	Yes
AUDIO	
Audio Ports	3.5MM (FEMALE)
Audio Ports Details	DAC supports 44.1/48/96/192KHz/384KHz Sample Rate, 16/24/32-bitADC input supports 48KHz sample rate, 16-bitSupports stereo audio or microphone inputAutomatic detection switch to CTIA/MTP mode
DATA	

Data Ports	(1) THUNDERBOLT 4 (USB-C FEMALE); (4) USB A (FEMALE); (1) USB C (FEMALE)
Data Ports Details	(2) USB-A - USB 3.2 Gen 1 (5 Gbps); (2) USB-A - USB 3.2 Gen 2 (10 Gbps); (1) USB-C - Thunderbolt 4 (40 Gbps); (1) USB-C - USB 3.2 Gen 2 (10 Gbps)
NETWORK	
Network Ports	RJ45 (FEMALE)
STORAGE	
Card Slots	MICRO SD (FEMALE); SD (FEMALE)
Card Slots Details	SD 4.0 and TF 4.0 slots support SD 4.0 data transfer speeds up to 312MBpsBoth slots can be used simultaneously
INPUT	
AC Power Adapter Plug(s)	NEMA 5-15P North America
AC Power Adapter Input Specs (V / Hz / A)	100-240V / 50-60Hz / 2.5A
AC Power Adapter Output Specs (V / A)	21V / 7.1A
AC Power Adapter Cord Length (ft.)	3.28
AC Power Adapter Cord Length (m)	1
Maximum Input Amps	3
Voltage Compatibility (VAC)	100; 110; 120; 125; 127; 200; 208; 220; 230; 240
Bus Powered	No
BATTERY	
Battery Charging (5V/1.5A Port)	No
POWER	
Power Source Type	AC Adapter
Power Source	Unit (Included)
USB Power Delivery (PD) Charging Support	Yes
USB Power Delivery (PD) Charging Specification	3.0
CONNECTIONS	
Number of Ports	13
Daisy-Chain Port	Thunderbolt (Female)
Side A - Connector 1	THUNDERBOLT 4 (USB-C FEMALE)
Side A - Connector 2	3.5MM (FEMALE)
Side B - Connector 1	RJ45 (FEMALE)
Side B - Connector 2	(4) USB A (FEMALE)

Side B - Connector 3	(2) HDMI (FEMALE)
Side B - Connector 4	USB C (FEMALE)
Side B - Connector 5	(2) SD (FEMALE)
Side B - Connector 6	THUNDERBOLT 4 (USB-C FEMALE)
Daisy-chainable / Cascadable	Yes
Daisy-chainable / Cascadable Details	Capable of cascading Thunderbolt devices up to 6 levels.
USER INTERFACE, ALERTS & CONTROLS	
LED Indicators	x1 Power Button LED = Orange (when first powered on), Blue (when connected to host); RJ45 Port = x1 Orange (Power), x1 Blue (Transmitting Data)
CHARGING	
Number of Charging Ports	6
Total Charging Watts	150
Charging Method	AC
Charging Port Type	(2) THUNDERBOLT 4 (USB-C FEMALE); (4) USB A (FEMALE); (1) USB C (FEMALE)
Charging Ports	(4) USB-A: 0.9A
Charging Ports Details	Thunderbolt 4 Host Port (x1): Supports Max 96W Host Charging (5V/9V/15V@3A, 20V@4.8A)Thunderbolt 4 Downstream port (x1): Supports 15W charging (5V/3A, No PD Charging)USB-C PD Charging Port (x1): Supports PD 3.0 Charging up to 30W (5V/3A, 9V/3A, 15V/2A, 20V/1.5A)USB-A Gen1 Ports (x2): Supports up to 900mA downstream charging (Primarily for powering ports)USB-A Gen2 Ports (x2): Supports up to 900mA downstream charging (Primarily for powering ports)
Charging Ports / Amps	(4) 0.9A; (1) 3A; (1) 3A / 2A / 1.5A
Smart Charging Details	150W Power Supply dynamically distributes power to Host and Hub according to the requirements of the connected devices. Compatible with 19V~22V (Max 150W power for host + dock; Max 96W for Host)
PHYSICAL	
Color	Gray
Total Number of Ports	12
Shipping Dimensions (hwd / in.)	3.22 x 11.88 x 5.11
Shipping Dimensions (hwd / cm)	8.20 x 30.20 x 13.00
Shipping Weight (lbs.)	2.53
Shipping Weight (kg)	1.15
Unit Dimensions (hwd / in.)	0.870 x 8.860 x 3.350
Unit Dimensions (hwd / cm)	2.2 x 8.5 x 22.5
Unit Dimensions (hwd / mm)	22 x 85 x 225
Unit Packaging Type	Box
Unit Weight (lbs.)	0
Unit Weight (kg)	0.00

ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	32° to 158°F (0° to 70°C)
Operating Humidity Range	10% to 90% RH
Storage Humidity Range	10% to 90% RH
Power Provided to Connected Device(s)	TB4#1: Max 96W (5V/9V/15V@3A; 20V@4.8A Host Charging); TB4#2: 15W Downstream charging; USB-C PD Port: (5V/3A, 9V/3A, 15V/2A, 20V/1.5A); USB 3.2 Ports: 900mA
COMMUNICATIONS	
Network Compatibility	10 Mbps; 100 Mbps (Fast Ethernet); 1 Gbps (Gigabit)
EDID Compatible	Yes
IEEE Standards Supported	802.1p; 802.1q; 802.3; 802.3ab; 802.3az; 802.3bz; 802.3u; 802.3x
FEATURES & SPECIFICATIONS	
USB Hub Ports	Yes
Number of USB Hub Ports	4
USB Specification	USB 3.2 Gen 1 (up to 5 Gbps); USB 3.2 Gen 2 (Up to 10 Gbps)
Data Transfer Rate	(2) 10 Gbps; (2) 5 Gbps
MST Support	Yes
Multi-Resolution Support	Yes
Network Speed Support	10 Mbps; 100 Mbps (Fast Ethernet); 1 Gbps (Gigabit); 2.5 Gbps
Ethernet Support	Yes
UASP Support	No
Auto MDIX Support	No
Full Duplex Support	No
Suspend Mode Support	No
Remote Wakeup Support	No
SD Card Specification	Mini SD; SD
Thunderbolt Specification	Thunderbolt 4 (up to 40Gbps)
Displayport Specification	1.4
HDCP Specification	1.4; 2.3
Driver Required	No
Recommended Category Cable	Cat6 UTP
Security Lock	Yes
STANDARDS & COMPLIANCE	
TAA Compliant Option	No

External Power Supply Certifications	DOE; cUL
Product Certifications	CAN/CSA-C22.2 No. 62368-1 (Canada); UL 62368-1; UL Listed
Product Compliance	FCC (USA); WEEE
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	1-year limited warranty

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