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8K ULTRAHD

THUNDERBOLT.

5-in-1 Thunderbolt™ 4 Mini Docking Station

TD-4050BP

FEATURES

- **Thunderbolt™ 4 Certified:** Reliable quality and performance powered by the Intel® Goshen Ridge solution
- **Plug-and-Play 5-in-1 Connectivity:** Equipped with a Thunderbolt™ 4/USB4 upstream USB-C port, three Thunderbolt™ 4/USB4 downstream USB-C ports, and a USB3.2 Gen2 USB-A port
- **Superfast Speed**: Transfers up to 40Gbps between Thunderbolt™ 4 or 3 USB-C devices
- **Smart Power Charging**: Offers safe and smart dynamic power delivery and charges up to a total of max. 85W to USB Power Delivery devices
- **Ultimate 8K & Triple-4K UHD Display**: Supports single 8K, dual-4K or triple-4K UHD display & DisplayPort Alternative Mode
- **Wide Compatibility**: Featuring latest Thunderbolt™ 4 technology and backward compatible with Thunderbolt 3, 2, USB-C 3.2, 3.1, and 2.0
- **Flexible Daisy-Chain**: Connection up to 6 Thunderbolt 3 devices
- **Slim, Stylish and Durable Aluminum Casing**

OVERVIEW

Powered by the latest Thunderbolt™ 4 technology with the Intel® Goshen Ridge controller, the EDIMAX TD-405BP Thunderbolt™ 4 Certified Mini Docking Station is designed to enhance your productivity. With superfast speed up to 40Gbps data rates for demanding high-productivity of data, video and audio transfer and ultimate triple-4K, dual-4K or single 8K UHD display, the TD-405BP features smart dynamic power delivers and charges up to 85W to any USB Power Delivery (PD) enabled devices.

It is not only for Thunderbolt™ 4 USB4 users, this plug-and-play 5-in-1 versatile device is backward compatible with Thunderbolt™ 3 and USB 3.2/3.1/3.0/2.0, moreover, it's plug-and-play on both Windows and Mac systems. With the Daisy-Chain features, the TD-405BP is able to connect up to 6 Thunderbolt™ 4 or Thunderbolt™ 3 devices. It also gives creative professionals and gamers the power to effectively handle data, video, audio transferring challenges they encounter in a production progress.

Thunderbolt™ 4 Certified | Intel Goshen Ridge Solution
Leveraging the flexibility of the Intel® Goshen Ridge Solution, the TD-405BP instantly and automatically adapts to your computer's capabilities no matter if you're using with a Thunderbolt™ 4, Thunderbolt™ 3 or USB-C computer.

Superfast Speed | Transfer Up to 40Gbps
Between Thunderbolt™ 4 or Thunderbolt™ 3 devices, the TD-405BP mini docking station supports data, audio and video transfer up to an astonishing and superfast speed up to 40Gbps. Transferring movies, music libraries, TV shows in seconds. It's ideal use for editing or to store high resolution photos, create 3D models for video game authoring and HD videos for editing.

Smart Power Charging | Power Deliver Up to 85W
The TD-405BP safely and smartly powers and charges your Thunderbolt™ 4 or Thunderbolt™ 3 and USB-C devices through the Thunderbolt™ cable. This compact docking station supports a smart power design with dynamic power delivery from the 100W power supply unit (PSU) to powered-devices of up to max. 85W according to the power consumption of the connected devices from the upstream (max. 60W) and downstream ports.

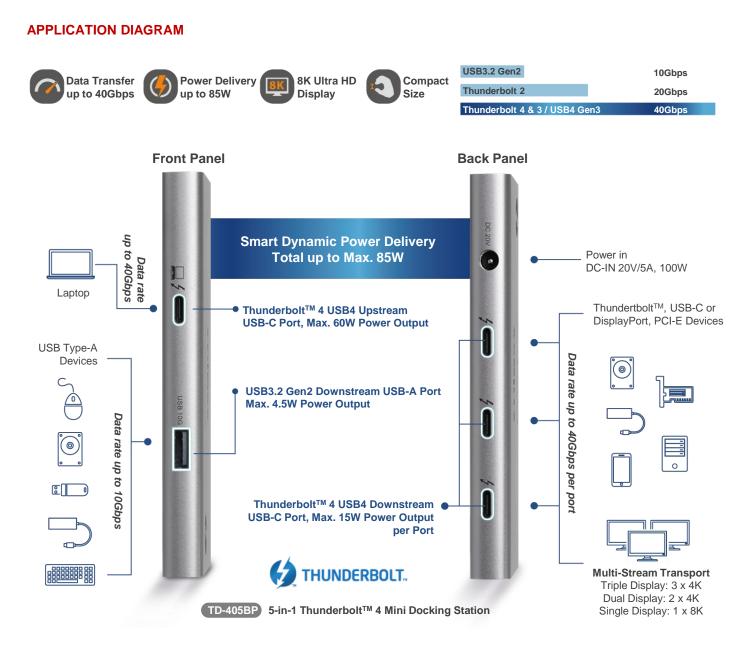## Ultimate HD Video Display | Triple-4K, Dual-4K or Single 8K Display

With the Thunderbolt™ 4 and DisplayPort Multi-Stream Transport (MST) technology, the TD-405BP can deliver authentic high-quality audio and crystal-clear video to a triple-4K, dual-4k displays or a single-8K display through the Thunderbolt™ 4 or Thunderbolt™ 3 cable. The TD-405BP supports one 8K display 30-bit @ 60Hz, one 4K display 30-bit @ 120Hz, two 4K displays each 30-bit @ 60Hz and three 4K displays including two 30-bit @ 60Hz and one 30-bit @ 30Hz. The TD-405BP mini docking station supports DisplayPort Alternative Mode to connect video sources (e.g. PCs, Blu-Ray players, etc.) and display devices (e.g. TVs, projectors, etc.) that support DisplayPort, via their USB-C ports to broadcast HD videos.

5-in-1 Wide Compatibility | Backward Compatible

Equipped with one Thunderbolt™ 4 USB4 upstream USB-C port, three Thunderbolt™ 4 USB4 downstream USB-C ports, and one USB3.2 Gen2 USB-A port, the TD-405BP is also backward compatible with Thunderbolt**™** 3, 2 and USB3.2/3.1/3.0/2.0 and delivers speeds up to 10Gbps for Thunderbolt 2/USB3.2, up to 5Gbps for USB3.0 and 480Mbps for USB2.0 devices, perfectly solves the selection problem.

Flexible Daisy-Chain | Connection Up to 6 Devices

With Thunderbolt™ 4 daisy chain technology, the TD-405BP can connect up to 6 Thunderbolt™ 4 or 3 USB-C enabled devices including hubs, docking stations, monitors, PCs, external graphics cards, SSD drives, displays and etc. providing flexibility when transferring larger videos and data files.

APPLICATION DIAGRAM

Data Transfer up to 40Gbps

Power Delivery up to 85W

8K Ultra HD Display

Compact Size

USB3.2 Gen2	10Gbps
Thunderbolt 2	20Gbps
Thunderbolt 4 & 3 / USB4 Gen3	40Gbps

Front Panel

Back Panel

Data rate up to 40Gbps

Laptop

USB Type-A Devices

Data rate up to 10Gbps

**Smart Dynamic Power Delivery
Total up to Max. 85W**

DC 20V

Power in
DC-IN 20V/5A, 100W

Thundertbolt™, USB-C or
DisplayPort, PCI-E Devices

**Thunderbolt™ 4 USB4 Upstream
USB-C Port, Max. 60W Power Output**

**USB3.2 Gen2 Downstream USB-A Port
Max. 4.5W Power Output**

Data rate up to 40Gbps per port

**Thunderbolt™ 4 USB4 Downstream
USB-C Port, Max. 15W Power Output
per Port**

⚡ **THUNDERBOLT.**

Multi-Stream Transport
Triple Display: 3 x 4K
Dual Display: 2 x 4K
Single Display: 1 x 8K

TD-405BP 5-in-1 Thunderbolt™ 4 Mini Docking Station

SPECIFICATIONS

HARDWARE

Main Chip	Intel® Goshen Ridge Thunderbolt™ 4 Controller
Interface	Front Panel: • 1 x Thunderbolt™ 4 USB-C Upstream Port • 1 x USB3.2 Gen2 Type-A Downstream Port Back Panel: • 3 x Thunderbolt™ 4 USB-C Downstream Port for Daisy-Chain Thunderbolt™ 4 or 3 Devices up to 6 Levels • 1 x Power Jack
Power Input	100W, DC20V/5A
Power Output	Total Max. 85W for All Upstream & Downstream Ports
Housing	Aluminum Case
Dimensions	124 x 74 x 13mm (LxWxH)
Weight	165g

PERFORMANCE

Data Transmission Rate	Up to 40Gbps • Thunderbolt 4 or 3: Up to 40Gbps • USB4: Up to 40Gbps • USB 3.2 Gen2 / 3.1: Up to 10Gbps • USB 2.0 Up to 480Mbps
Power Delivery	Up to Max. 85W • Thunderbolt™ 4 Upstream USB-C Port for System Charging: Up to 60W, 20V/5A Max. (5V/9V/15V/20V) • Thunderbolt™ 4 Downstream USB-C Port for Bus-powered Devices: 15W • USB3.2 Gen2 Downstream Type-A Port for Power Delivery: 900mA (Supports BC1.2 (5V/1A) and Apple Charge 2.1A)) • Power Delivery Priority: Downstream USB-C, USB-A then Upstream USB-C
Video and Audio Output	• DisplayPort Alternate Mode (DP Alt Mode) • DisplayPort Multi-Stream Transport (MST) • One 8K display (7680 x 4320) 30-bit @ 60Hz (with Thunderbolt™ 4 compliant and source computer must support DisplayPort 1.3 or higher to achieve 8K resolutions) • One 5K display (5120 x 2880) 30-bit @ 60Hz • One 4K display (4096 x 2160) 30-bit @ 120Hz • Two 4K displays each (4096 x 2160) 30-bit @ 60Hz • Three 4K display each (4096 x 2160): Two 4K 30-bit @ 60Hz and one 4K 30-bit @ 30Hz (with DisplayPort Multi-Stream Transport (MST) compliant)

OTHERS

Standard	• USB4 / USB3.2 / USB3.1 / USB2.0 • Thunderbolt™ 4 / Thunderbolt™ 3 • DisplayPort 1.4 / DisplayPort 1.2 • DisplayPort Alternate Mode (DP Alt Mode) • DisplayPort Multi-Stream Transport (MST) • PCI-E 3.0	
System Requirement	• Windows 10, Mac OS 11 • Thunderbolt™ 4, Thunderbolt™ 3 cable, or USB4 cable with USB-C connectors • Power input is required to use the device	
Environmental Condition	Temperature: • Operating: 0~45°C (32~113°F) • Storage: 0~70°C (32~158°F)	Humidity • Operating : 10~90% (NonCondensing) • Storage: 10~90% (NonCondensing)
Certification	CE, FCC, Intel® Thunderbolt™ 4 Certified	
Package Content	TD-405BP / Quick Installaiton Gudie / Power Adapter	

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