

Thunderbolt™ 4 Advantages

A fast, simple, reliable solution for your customers



For Consumers

Use your computer anywhere and then easily connect it with a single cable at your desk to enjoy a Thunderbolt dock, larger monitor and accessories, all while charging your computer.

For Work & Home Office

Create a more productive and secure workspace with a single cable that connects to power, a mouse, keyboard, webcam and multiple monitors.

For Gamers

Create an immersive gaming experience and reduce cable clutter with Thunderbolt docks and monitors. Add more storage with speeds up to 3,000 MB/s to quickly load games.

For Creators

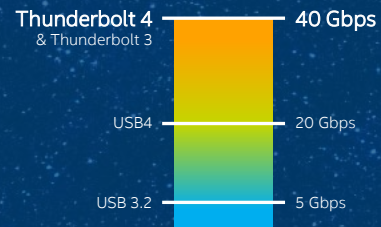
Create and enjoy a clutter-free desktop with Thunderbolt docks, color-accurate monitors, low latency audio interfaces and faster storage to spend more time creating and less time working.

⚡ Look for the Thunderbolt icon for all these benefits

One universal port makes it simple to connect to multiple protocols



Always maximum performance¹
Unleash the power of your processor

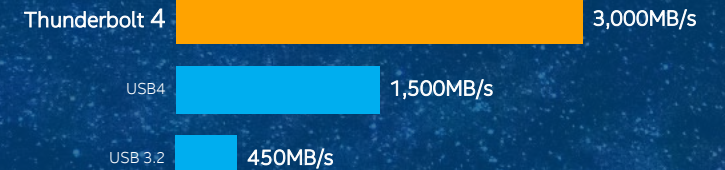


A smarter workspace with a single cable connected to your dock and accessories

Computers, cables and accessories certified to ensure a **reliable** end-to-end solution



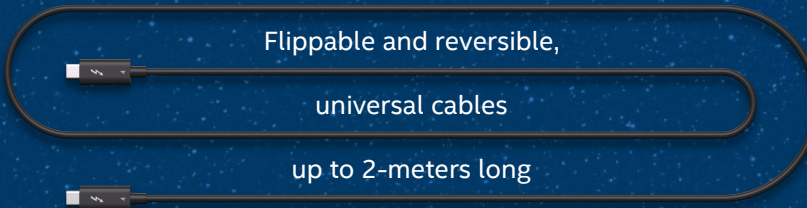
Computers with Thunderbolt 4 offer fastest data transfers¹



Wake your docked laptop by touching your keyboard or mouse



Flippable and reversible,
universal cables
up to 2-meters long



Enhanced security with Intel VT-d based DMA protection



Thunderbolt 4 accessories with up to four Thunderbolt ports



¹ Performance based on minimum specification requirements.

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Comparing Thunderbolt™ 4 to other solutions



Help customers understand Thunderbolt™ 4 is the simplest, fastest, most reliable solution for connecting to power and accessories

		Thunderbolt™ 4	Thunderbolt™ 3	USB4	USB3/DP
Unrivaled Simplicity	One brand, one logo, and one icon to simplify purchases	•	•		
	One universal computer port for problem-free connectivity to power and accessories	•			
	One universal and flippable cable up to 2m to make cable selection fast and easy	•			
	Thunderbolt 4 accessories with more Thunderbolt ports to simplify the modern workspace	•			
	A computer with a Thunderbolt port connected to a Thunderbolt dock wakes up with a touch of keyboard or mouse even when the computer lid is closed	•			
Reliable Connectivity	Mandatory certification for computers, accessories and cables offers reliable connectivity for products across different brands	•	•		
	Testing and quality audits of Thunderbolt cables	•	•		
	Intel® VT-d based security for peace of mind	•			
Maximum Performance ¹	Always the maximum performance available to unleash the power of your processor	40Gb/s	40Gb/s	20Gb/s	10Gb/s
	Video support available from computer to connect monitors with incredible color and detail to work, game and create	Two 4K monitors	One 4K monitor	One HD monitor	One HD monitor
	More bandwidth for high speed data transfers	32Gb/s	16Gb/s	10Gb/s	5Gb/s
	More computer port power available to run accessories	15W	15W	7.5W	4.5W



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