







Prelaunch Chipset Brief The Intel® 700 Series Chipset with 13th Gen Intel® Core™ Desktop Processors

FEATURE	BENEFIT		
Support for 12 th and 13 th Gen Intel [®] Core [™] desktop processors	Cross-generation compatibility with additional PCIe lanes and USB ports.		
Volume Management Device (Intel® VMD) ³	User-friendly way to manage your storage devices that allows direct control and management of NVMe SSDs from the PCIe bus without additional hardware adaptors.		
Memory Overclocking ¹ Support	Enables memory overclocking so that new and experienced users can get more from their unlocked processors.		
Intel® Rapid Storage Technology 19.x or later	With additional SSDs and hard drives added, helps provide quick access to digital photo, video, and data files, and data protection against a hard disk drive failure with RAID 0, 1, 5, and 10.		
Intel® Wi-Fi 6E Support	Integrated Intel® Wi-Fi 6E (Gig+) through CNVi and Intel® Killer™ Wi-Fi 6E (Gig+) so that you can enjoy uninterrupted, best-in-class wired and wireless connectivity at Gigabit Wi-Fi speeds. ⁷		
Intel® Smart Sound Technology	Integrated digital signal processor (DSP) for audio offload and audio/voice features.		
USB 3.2 Gen 2x2	Integrated USB 3.2 Gen 2x2 support provides data transfer performance with a design data rate of up to 20 Gb/s.		
USB 3.2 Gen 2x1	Integrated USB 3.2 Gen 2x1 support provides data transfer performance with a design data rate of up to 10 Gb/s.		
USB 3.2 Gen 1x1	Integrated USB 3.2 Gen 1x1 support provides data transfer performance with a design data rate of up to 5 Gb/s.		
Serial ATA (SATA) 6 Gb/s	High-speed storage interface that supports up to 6 Gb/s transfer rates for optimal data access.		
Intel® Platform Trust Technology	Integrated chipset hardware and firmware solution that delivers a trusted element of the platform execution to provide enhanced security against viruses and malicious SW attacks.		
PCI Express 4.0 Interface	Up to 20 PCI Express 4.0 lanes of 16 GT/s for fast access to peripheral devices and networking.		
PCI Express 3.0 Interface	Up to 8 PCI Express 3.0 lanes of 8 GT/s for fast access to peripheral devices and networking.		

INTEL® 700 SERIES CHIPSETS FEATURES AT A GLANCE

	Intel® Z790 Series Chipset³	Intel® H770 Series Chipset³	Intel® B760 Series Chipset³
Chipset PCle Express4 3.0 Lanes ⁵	Up to 8	Up to 8	Up to 4
Chipset PCIe Express4 4.0 Lanes ⁵	Up to 20	Up to 16	Up to 10
Processor PCIe Lane Configuration Support	1x16+1x4 or 2x8+1x4	1x16+1x4 or 2x8+1x4	1x16+1x4
DMI	x8 Gen4	X8 Gen4	X4 Gen4
SATA 3.0 (6 Gb/s) Ports ³	Up to 8	Up to 8	4
USB 3.2 Gen 1x1 (5G) Ports	10		6
USB 3.2 Gen 2x1 (10G) Ports	10		
USB 3.2 Gen 2x2 (20G) Ports ⁶	5	2	2

Notices and Disclaimers

Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex.

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.

Results have been estimated or simulated.

Altering clock frequency or voltage may void any product warranties and reduce stability, security, performance, and life of the processor and other components. Check with system and component manufacturers for details.

- Overclocking Disclaimer: Unlocked features are present with select chipsets and processor combinations. Altering clock frequency or voltage may void any product warranties and reduce stability, security, performance, and life of the processor and other components. Check with system and component manufacturers for details.
- ².Maximum memory speeds are associated with 1 DIMM per Channel (1DPC) configurations. Up to DDR5-5600 MT/s 1DPC UDIMM 1Rx8, 1Rx16 and DDR5-5200 1Rx8, 1Rx16, 2Rx8.

- ³Other names and brands may be claimed as the property of others. Check motherboard vendor for 13th gen compatible BIOS.
- ^{4.}Support requires Intel® RST19.x or later drivers.
- 5.Maximum lanes/ports available may vary depending on platform implementation.
- ⁶.Requires 2 physical HSIO USB lanes.
- 7'Best in Class wired and wireless connectivity with Wi-Fi 6': Intel® Wi-Fi 6 (Gig+) products support optional 160 MHz channels, enabling the fastest possible theoretical maximum speeds (2402 Mbps) for typical 2x2 802.12ax PC Wi-Fi products. Premium Intel® Wi-Fi 6 (Gig+) products enable 2-4X faster maximum theoretical speeds compared standard 2x2 (1201 Mbps) or 1x1 (600 Mbps) 802.12ax PC Wi-Fi products, which only support the mandatory requirement of 80 MHz channels. Gigabit Wi-Fi Requirements: To achieve speed of over 1 Gbps requires Gig internet service, router/gateway with either Wi-Fi 6 or 12ac with 160 MHz channel support, and PC with Intel® Wireless 9260/9560 or Intel® Wi-Fi 6 (Gig+) AX200/AX201.

