

Quick Reference Guide

Intel® Core™ Ultra Mobile Processors (H & U-SKUs)

NEW Next Generation P-Cores + E-Cores

NEW Integrated Intel® XMX (Xe Matrix Extensions)
(Only on H-SKUs)

ENHANCED Intel® Xe LPG+ Architecture
(Only on H-SKUs)

NEW Full Rate Ray Tracing
(Only on H-SKUs)

NEW DDR5 6400 Support¹
NEW LP5X 8400 and LP5/5x CMM2



FEATURED NPU, 11 TOPS²

NEW Linear Address Space Separation (LASS)

FEATURED Thunderbolt™ 4 Technology Support

NEW Thunderbolt™ 5 Technology (80/120G)
(Only on H-SKUs)

NEW Integrated Intel® Wi-Fi 7³ (5 Gig) & Bluetooth® 5.4 Support

NEW Memory Power Management

SKU Chart

Intel® Core™ Ultra Mobile Processors (H-SKUs)

Processor Number	Processor Cores (P-cores + E-cores + LP E-cores) ⁴	Processor Threads	Intel® Smart Cache (LLC)	Max Turbo Frequency ⁵	Base Frequency	Graphics Max Frequency	Processor Graphics	Total PCIe Lanes, Thunderbolt™ Technology, Wi-Fi	Max Memory Speed ¹	Memory Capacity/ Rank	Processor Base Power	Maximum Turbo Power
				P-core	P-core							
Intel® Core™ Ultra 9 Processor 285H	16 (6+8+2)	16	24 MB	Up to 5.4 GHz	Up to 2.9 GHz	Up to 2.35 GHz	Intel® Arc™ 140T GPU	1x8 PCIe Gen 5 + 2x4 PCIe Gen 4 4 Integrated Thunderbolt™ 4 + Discrete Thunderbolt™ 5 Integrated Wi-Fi 6E + Wi-Fi 7 ³	DDR5 - 6400 LP5x -8400 LP5/5x CAMP2	96 GB (DDR5) 64 GB (LP5/x)	45 W	60 (28 W cTDP), 115 (45 W cTDP)
Intel® Core™ Ultra 7 Processor 265H	16 (6+8+2)	16	24 MB	Up to 5.3 GHz	Up to 2.2 GHz	Up to 2.3 GHz					28 W	
Intel® Core™ Ultra 7 Processor 255H	16 (6+8+2)	16	24 MB	Up to 5.1 GHz	Up to 2.0 GHz	Up to 2.25 GHz						
Intel® Core™ Ultra 5 Processor 235H	14 (4+8+2)	14	18 MB	Up to 5.0 GHz	Up to 2.4 GHz	Up to 2.25 GHz						
Intel® Core™ Ultra 5 Processor 225H	14 (4+8+2)	14	18 MB	Up to 4.9 GHz	Up to 1.7 GHz	Up to 2.2 GHz	Intel® Arc™ 130T GPU					

SKU Chart

Intel® Core™ Ultra Mobile Processors (U-SKUs)

Processor Number	Processor Cores (P-cores + E-cores + LP E-cores) ⁴	Processor Threads	Intel® Smart Cache (LLC)	Max Turbo Frequency ⁵	Base Frequency	Graphics Max Frequency	Processor Graphics	Total PCIe Lanes, Thunderbolt™ Technology, Wi-Fi	Max Memory Speed ¹	Memory Capacity/ Rank	Processor Base Power	Maximum Turbo Power
				P-core	P-core							
Intel® Core™ Ultra 7 Processor 265U	12 (2+8+2)	14	12 MB	Up to 5.3 GHz	Up to 2.1 GHz	Up to 2.1 GHz	Intel® Graphics	2x4 PCIe Gen 4	DDR5 - 6400 LP5x - 8400 LP5/5x CAMM2	96 GB (DDR5) 64 GB (LP5/x)	15 W	57 W
Intel® Core™ Ultra 7 Processor 255U	12 (2+8+2)	14	12 MB	Up to 5.2 GHz	Up to 2.0 GHz	Up to 2.1 GHz		4 Integrated Thunderbolt™ 4				
Intel® Core™ Ultra 5 Processor 235U	12 (2+8+2)	14	12 MB	Up to 4.9 GHz	Up to 2.0 GHz	Up to 2.05 GHz		Integrated Wi-Fi 6E + Wi-Fi 7 ³				
Intel® Core™ Ultra 5 Processor 225U	12 (2+8+2)	14	12 MB	Up to 4.8 GHz	Up to 1.5 GHz	Up to 2.0 GHz						

For numbered references, see [notices and disclaimers](#) section.

Notices & Disclaimers

Performance varies by use, configuration, and other factors. Learn more on the Performance Index site.

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.

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Your costs and results may vary.

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1. **Max Memory Speed:** For latest memory configurations and speeds, refer to ark.intel.com.
2. **TOPS:** All TOPS are “up to” and approximate until final IP frequency defined, different SKUs with different frequency & power targets will have different TOPS.
3. **Intel® Wi-Fi 7 (5 Gig):** While Wi-Fi 7 is backward compatible with previous generations, new Wi-Fi 7 features require PCs configured with Intel® Wi-Fi 7 solutions, PC OEM enabling, operating system support, and use with appropriate Wi-Fi 7 routers/Access Points/gateways. 6 GHz Wi-Fi 7 may not be available in all regions. Performance varies by use, configuration, and other factors. For details on performance claims, learn more at www.intel.com/performance-wireless.
4. **Core Counts:** Processor cores listed first are the total number of cores in the processor. The number of Performance-cores, Efficient-cores, and Low-power E-cores are listed in parentheses (P+E+LPE).
5. **Max Turbo Frequency:** The frequency of cores and core types varies by workload, power consumption, and other factors. Visit <https://www.intel.com/content/www/us/en/architecture-and-technology/turbo-boost/turbo-boost-technology.html> for more information.