

New Intel N-series Processors

Performance you need with the affordability
you want, to connect, learn, and play anywhere

intel®



Introducing

New Architecture for Entry Level Computing

Intel® Processor and Intel® Core™ i3 N-series Processors

Collaborate & Learn with Confidence

Ultra-fast Intel® Wi-Fi 6E (Gig+) and improved IPU

Next-Level Performance & Value

Up to 28% better application performance on Intel Processor
+ additional 42% with Intel Core i3 N-Series processor

Richer All Day Viewing Experiences

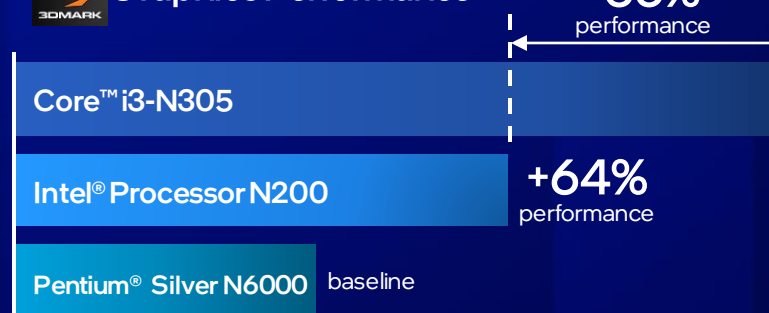
Up to 64% better graphics performance on Intel Processor
+ additional 56% with Intel Core i3 N-series processor



CrossMark Performance



Graphics Performance



Collaborate & Learn with Confidence

Amazing video-conferencing

- Improved integrated IPU and MIPI camera support, even in low light conditions

Best in class Wi-Fi 6E connectivity

- Nearly 3X faster than Wi-Fi 5 with exclusive 6GHz high-speed channel that other devices can't use

GNA 3.0 for background noise suppression



Next Level Performance & Value

Scalable, affordable performance

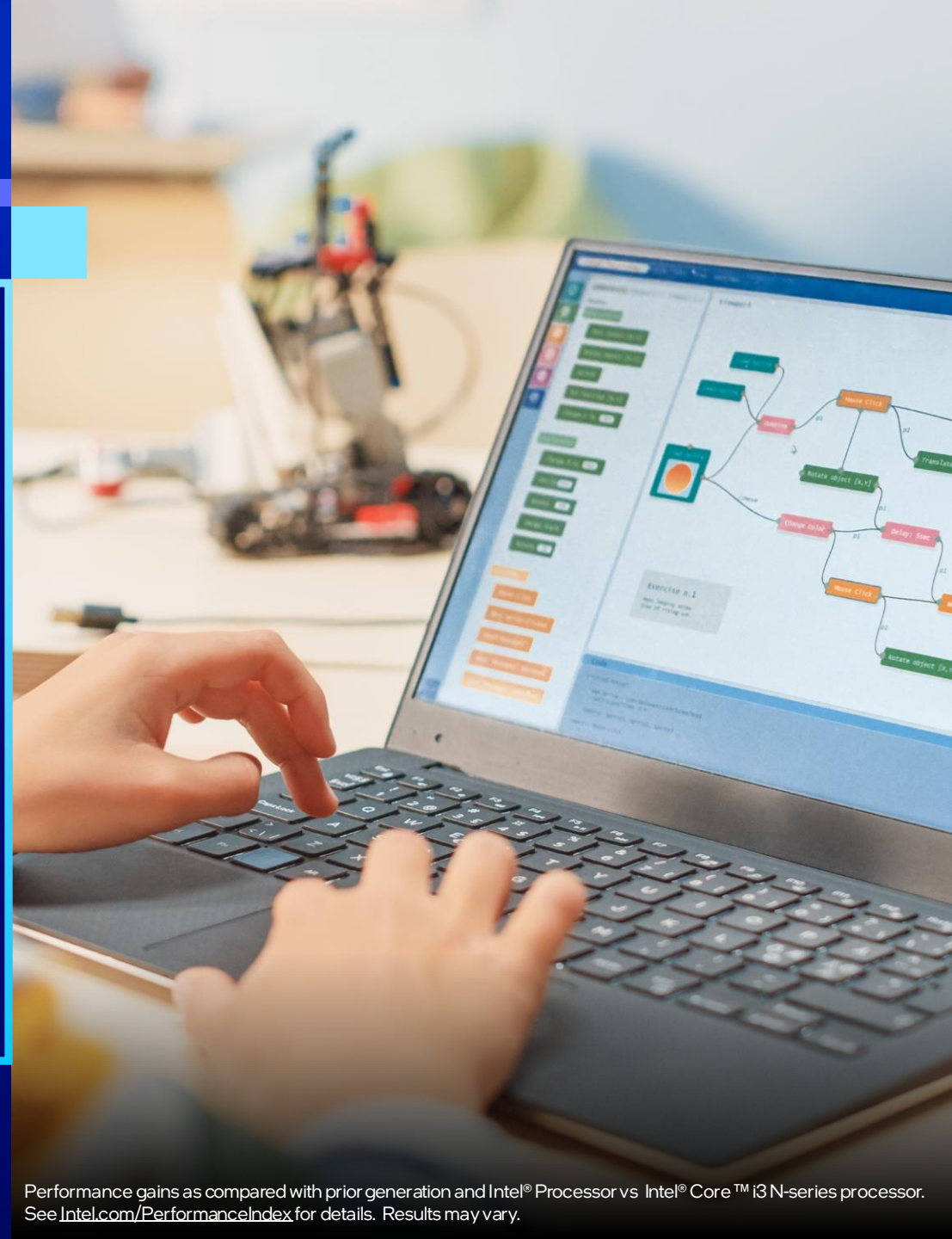
- New Gracemont CPU microarchitecture built on Intel 7 process
- 4 to 8 Efficient core options deliver great performance per Watt

Great performance for opening price points with Intel® Processor

- Up to 28% better overall application performance and up to 28% faster web browsing

Step-up to next performance level with Intel® Core™ i3 N-series processor

- Up to 42% overall application performance and up to 24% faster web browsing



Richer All Day Viewing Experiences

Watch and Play on the Go All Day

- Up to 10-hour HD video playback without recharging
- 10bit HEVC & VP9 Encode/Decode, AV1 decode for high color depth

Great Graphics for Casual gaming

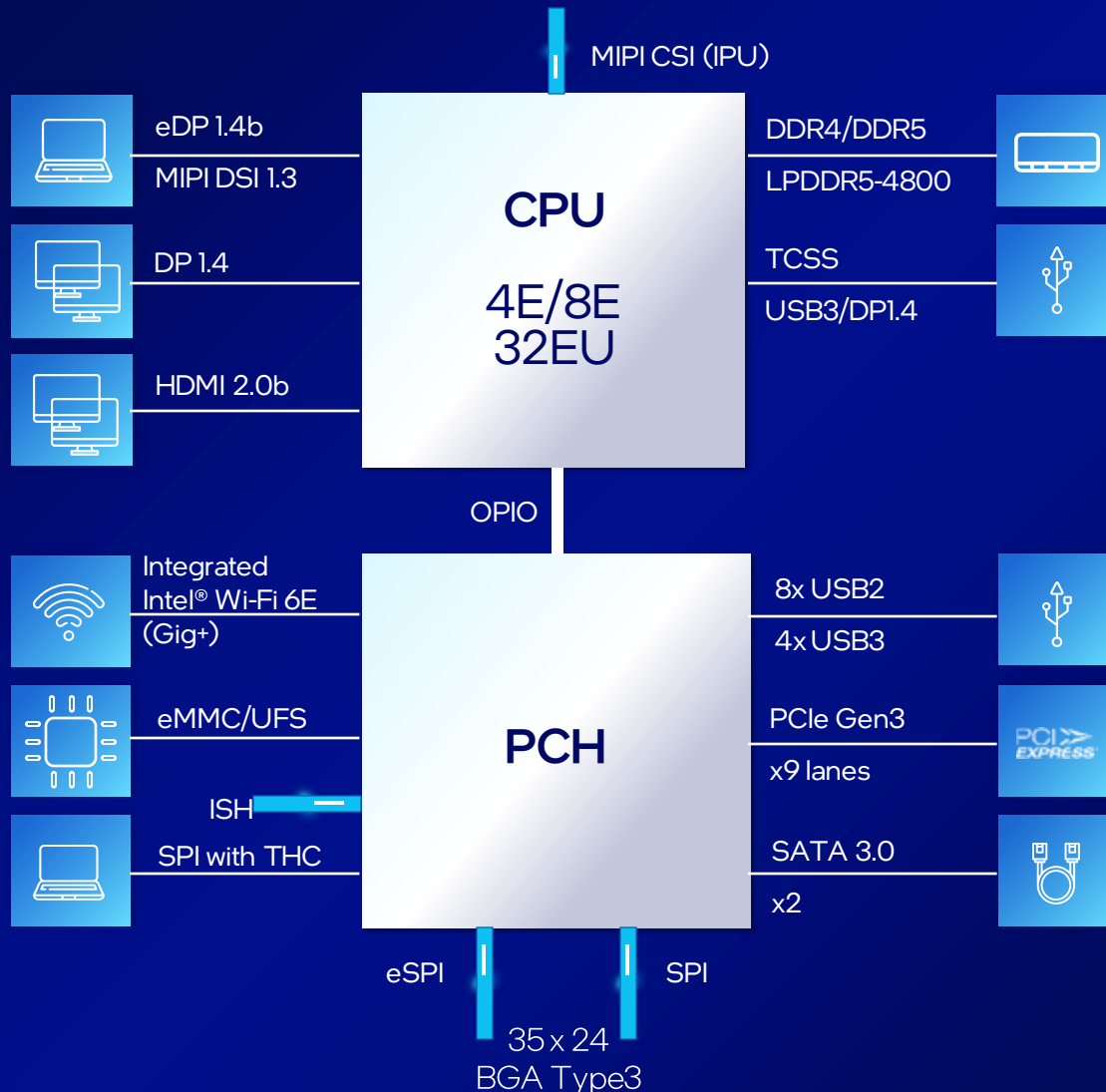
- Up to 64% better graphics performance with Intel® Processor

Stunning Visuals

- Stream video in 4K HDR on your TV via HDMI 2.0b
- Up to 3 simultaneous displays



Block Diagram – N-series Features Overview



Gracemont Efficient Cores

- 4 Cores with Intel® Processor
- 8 Cores with Intel® Core™ i3 N-series processor

New Graphics, Display Engine and IPU

- AV1 decode
- Low power eDP delivers high resolution displays
- High image quality IPU 6EP, better IQ tuning and HW acceleration

Extended Connectivity



- Intel® Wi-Fi 6E (Gig+) & Bluetooth 5.2
- Integrated TCSS (USB3.2 Gen 2x1 and DP1.4)

Flexible Memory and Storage Supported

- LPDDR5, DDR5, DDR4
- UFS 2.1/ SSD / eMMC

For Entry Level Laptops and Desktops

N-series Processors

	Processor Number	Processor Cores E-cores	Processor Threads	L3 Cache	Max Turbo Frequency E-cores	Processor Graphics	Max Graphics Frequency	LPDDR5/DDR5/ DDR4 Frequency	Processor Base Power
	i3-N-305	8C	8T	6 MB	Up to 3.8 GHz	32 EU	Up to 1.25 GHz	4800/4800/ 3200	15 W
	i3-N300	8C	8T	6 MB	Up to 3.8 GHz	32 EU	Up to 1.25 GHz	4800/4800/ 3200	7 W
	Intel® Processor N200	4C	4T	6 MB	Up to 3.7 GHz	32 EU	Up to 750 MHz	4800/4800/ 3200	6 W
	Intel® Processor N100	4C	4T	6 MB	Up to 3.4 GHz	24 EU	Up to 750MHz	4800/4800/ 3200	6 W

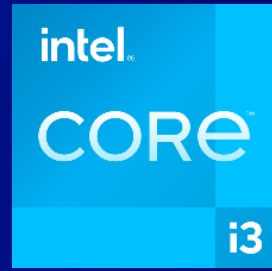
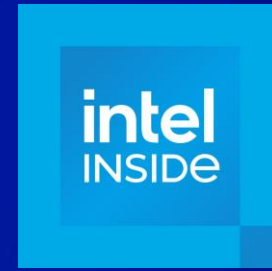
Intel® processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. The frequency of cores and core types varies by workload, power consumption and other factors.

Visit: <https://www.intel.com/content/www/us/en/architecture-and-technology/turbo-boost/intel-turbo-boost-technology.html?wapkw=turbo%20boost%20technology> for more information.

All SKUs support CPU, GPU, and memory overclocking. Max Turbo Frequency for P-cores may include Intel Turbo Boost Max 3.0 and Thermal Velocity Boost.

See ark.intel.com for more specification details

New N-series Entry Level Computing



Raising computing standards for learning, collaborating and playing

New Intel® Processor brand enhances value at opening price point

Scale up with the New Intel® Core™ i3 N-series processors

Building momentum with over 50 OEM designs in 2023

Leading ecosystem partnerships for ChromeOS and Windows



Microsoft



chromebook

acer



Lenovo

ASUS

Notices & Disclaimers

Unless otherwise noted, testing as of dates shown in the configurations and may not reflect all publicly available updates. See above for configuration details. No product or component can be absolutely secure.

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

Your costs and results may vary.

Intel contributes to the development of benchmarks by participating in, sponsoring, and/or contributing technical support to various benchmarking groups, including the BenchmarkXPRT Development Community administered by Principled Technologies.

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