

# CHOOSING THE RIGHT INTEL® CORE™ PROCESSOR-BASED LAPTOP

Intel® Core™ Processors are designed to power a wide range of amazing laptops



## CHOOSE THE ULTIMATE IN FORM, FUNCTION & STYLE!



Choosing a balance of performance, mobility & battery life in the right form factor is essential.

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2 in 1 personal laptops equipped with Intel® Core™ Processor (Y-Series)



- Ultra-Thin
- Ultra-Mobile
- Balanced Compute

Versatile laptops equipped with Intel® Core™ Processor (U-Series)



- Powerful CPU & graphics in Razor-Thin Form factor
- Intel® HD & Intel® Iris™ Plus Graphics Options
- Convertible & Clamshell

Intel® Core™ Processor-based clam shell form factor laptops (H-Series)



- Support full performance processors & discrete graphics for amazing gaming and content creation
- Select form factors support more than one HDD/SSD in RAID 0 for ultimate performance

Intel® Core™ Processor-based clam shell laptops supporting overclocking (HK-Series)



- Built for Enthusiast Gaming with higher frequency processors & discrete graphics
- Overclocking support
- Multiple HDD/SSD RAID 0
- Select SKUs include mechanical keyboard for improved gaming function

PORTABILITY



PERFORMANCE



BATTERY LIFE



## Y-SERIES PROCESSOR

## U-SERIES PROCESSOR

## HQ & HK-SERIES PROCESSOR

NEW

Intel® Core™	i7	-	7	820	HK	Processor
Intel® Core™	i7	-	7	820	HQ	Processor
Intel® Core™	i7	-	8	650	U	Processor
Intel® Core™	i7	-	7	600	U	Processor
Intel® Core™	i7	-	7	Y	75	Processor



HK-Series



Higher processor frequency can improve performance

1.10 GHz

1.20 GHz

1.30 GHz

2.40 GHz

1.60 GHz

1.80 GHz

3.0 GHz

2.50 GHz

2.8 GHz

2.9 GHz

Lower Thermal Design Power allows for more portability and higher TDP for more compute performance

3GHz

3.30 GHz

3.60 GHz

No Turbo Boost\*

3.60 GHz

3.90 GHz

No Turbo Boost\*

3.50 GHz

3.8 GHz

Unlocked

4.5W

4.5W

4.5 W

15 W

15 W

15 W

35 W

45 W

45 W

45 W

An increased number of cores allows more work to be done simultaneously. Larger cache can improve performance.

2 Cores  
4 Threads

2 Cores  
4 Threads

4 Cores  
8 Threads

2 Cores  
4 Threads

4 Core  
4 Threads

4 Cores  
8 Threads

4MB Cache

3MB Cache

8MB Cache

3MB Cache

6 MB Cache

8MB Cache

System memory should scale with application demands

16GB Max Memory

32GB Max Memory

64GB Max Memory

Intel® Iris™ Graphics provides significant graphics performance increase over Intel® HD Graphics

Intel® HD Graphics 615

Intel® HD Graphics 615

Intel® UHD Graphics 620

Supports Discrete Graphics

Select the Intel® Core™ processor technologies to meet specific solution requirements

Intel® vPro™ Technology\*  
Intel® Stable Image Platform Program\*  
Intel® TSX – NI\*  
Intel® Trusted Execution Technology\*

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Overclocking

MAKE SURE IT'S THE LATEST GENERATION INTEL® CORE™ PROCESSOR

To find out more, visit [ark.intel.com](http://ark.intel.com)

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