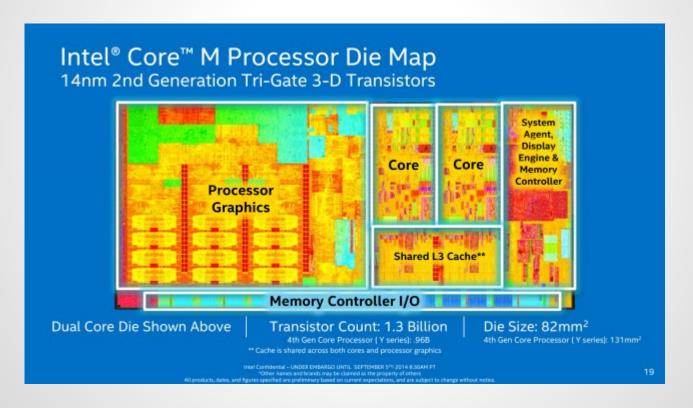
# Intel Core M



## **Intel Core M**

- Based on Broadwell, a 14nm version of Haswell
- "Tick" of Intel's tick-tock strategy
- Die area is 37% smaller than Haswell-Y
- Designed for fanless 9mm devices, with lower TDP than previous Intel x86 implementations
- At 4.5W, the processor is targeted at notebooks
- Each Core M processor will have 2 cores, each supporting 2 threads
- Each core will be able to turbo independently
- Commercial products expected in Q1 2015

#### Intel Core M Specifications

	Core M-5Y70	Core M-5Y10a	Core M-5Y10
Cores / Threads	2/4	2/4	2/4
Base Frequency / MHz	1100	800	800
Turbo Frequency / MHz	2600	2000	2000
Processor Graphics	HD 5300	HD 5300	HD 5300
IGP Base Frequency / MHz	100	100	100
IGP Turbo Frequency / MHz	850	800	800
L3 Cache	4 MB	4 MB	4 MB
TDP	4.5 W	4.5 W	4.5 W
LPDDR3/DDR3L Support	1600 MHz	1600 MHz	1600 MHz
Intel vPro	Yes	No	No
Intel TXT	Yes	No	No
Intel VT-d/VT-x	Yes	Yes	Yes
Intel AES-NI	Yes	Yes	Yes

## **Initial Benchmarking**

- According to HotHardware, they got these results from a modified version of Llama Mountain platform, with a Core M 5Y70-powered Windows tablet:
  - Cinebench R 11.5:
    - OpenGL- 16.96 FPS
    - CPU- 2.48 pts
  - Sunspider JavaScript- 142.8
  - Futuremark's 3DMark Ice Storm- 50,985
- These results are better than Atom, AMD, and ARM commercial tablets, but these are initial results from an Intel reference tablet

### Sources

- http://anandtech.com/show/8475/intels-core-m-strategycpu-specifications-for-9mm-fanless-tablets
- http://hothardware.com/News/First-Actual-Intel-Broadwell-Tablet-Benchmarks-From-IDF-2014/
- http://www.intel. com/content/www/us/en/processors/core/nextgeneration-core-processors.html