

ARK | Compare Intel® Products

Intel Atom® Processor C2338 (1M Cache- 1.70 GHz)

Essentials

Product Collection	Intel Atom® Processor C Series
Code Name	Products formerly Rangeley
Vertical Segment	Embedded
Processor Number	C2338
Lithography	22 nm
Use Conditions	Communications
Recommended Customer Price	\$60.00

CPU Specifications

Total Cores	2
Total Threads	2
Max Turbo Frequency	2.00 GHz
Intel® Turbo Boost Technology 2.0 Frequency‡	2.00 GHz
Processor Base Frequency	1.70 GHz
Cache	1 MB
TDP	7 W

Supplemental Information

Marketing Status	Launched
Launch Date	Q3'13
Servicing Status	End of Servicing Lifetime
End of Servicing Updates Date	Wednesday June 30 2021
Embedded Options Available	Yes

Memory Specifications

Max Memory Size (dependent on memory type)	16 GB
Memory Types	DDR3/DDR3L 1333
Max # of Memory Channels	1
Physical Address Extensions	36-bit
ECC Memory Supported ‡	Yes

Expansion Options

PCI Express Revision	2
PCI Express Configurations ‡	x1 x2
Max # of PCI Express Lanes	8

I/O Specifications

# of USB Ports	4
USB Revision	2
Total # of SATA Ports	6
Integrated LAN	4x1 or 4x2.5 GbE
UART	2 Interfaces

Max # of SATA 6.0 Gb/s Ports 2

Package Specifications

Sockets Supported FCBGA1283

Package Size 34 mm x 28 mm

Advanced Technologies

Intel® Turbo Boost Technology ‡ 2

Intel® Hyper-Threading Technology ‡ No

Intel® 64 ‡ Yes

Instruction Set 64-bit

Integrated Intel® QuickAssist Technology No

Security & Reliability

Intel® AES New Instructions Yes

Execute Disable Bit ‡ Yes

Intel® Virtualization Technology (VT-x) ‡ Yes

Intel® VT-x with Extended Page Tables (EPT) ‡ Yes