



## Compare Intel® Products

 Highlight rows with differences

	◀◀	▶▶	
▶ Product Name	Intel® Atom™ Processor E3845 (2M Cache, 1.91 GHz)	Intel® Atom™ Processor D2550 (1M Cache, 1.86 GHz)	
▶ Code Name	Bay Trail	Cedarview	
⊖ Essentials			
▶ Status	Launched	Launched	
▶ Launch Date	Q4'13	Q1'12	
▶ Processor Number	E3845	D2550	
▶ # of Cores	4	2	
▶ # of Threads	4	4	
▶ Clock Speed	1.91 GHz	1.86 GHz	
▶ Cache	2 MB L2 Cache	1 MB L2 Cache	
▶ Instruction Set	64-bit	64-bit	
▶ Embedded Options Available	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	
▶ Lithography	22 nm	32 nm	
▶ Max TDP	10 W	10 W	
▶ Recommended Customer Price	TRAY: \$52.00	TRAY: \$47.00	
▶ Datasheet	<a href="#">Link</a>	<a href="#">Link</a>	
▶ Conflict Free	<input type="checkbox"/> Yes		
▶ Instruction Set Extensions		SSE2, SSE3, SSSE3	
▶ VID Voltage Range		0.91V -1.21V	
⊖ Memory Specifications			
▶ Max Memory Size (dependent on memory type)			
▶ Memory Types	▶ Product Name	Intel® Atom™ Processor E3845 (2M Cache, 1.91 GHz)	Intel® Atom™ Processor D2550 (1M Cache, 1.86 GHz)
▶ # of Memory Channels	▶ Code Name	Bay Trail	Cedarview
▶ ECC Memory Supported †	<input type="checkbox"/> Yes	No	
▶ Max Memory Bandwidth		6.4 GB/s	
▶ Physical Address Extensions		36-bit	
⊖ Graphics Specifications			
▶ Processor Graphics †	Intel® HD Graphics	Integrated	
▶ Graphics Base Frequency	542 MHz	640 MHz	
▶ Graphics Burst Frequency	792 MHz		
▶ Intel® Quick Sync Video	<input type="checkbox"/> Yes		
▶ # of Displays Supported †	2	2	
⊖ Expansion Options			
▶ PCI Express Revision	2.0		
▶ PCI Express Configurations †	x4, x2, x1		
▶ Max # of PCI Express Lanes	4	4	
⊖ I/O Specifications			
▶ USB Revision	2.0, 3.0		

▶ Total # of SATA Ports	2	
▶ Integrated LAN	No	
▶ Integrated IDE	No	
▶ UART	<input checked="" type="checkbox"/> Yes	
⊖ Package Specifications		
▶ T <sub>JUNCTION</sub>	-40°C to 110°C	100 C
▶ Package Size	25mm x 27mm	22mm X 22 mm
▶ Sockets Supported	FCBGA1170	FCBGA559
▶ Low Halogen Options Available	See MDDS	See MDDS
⊖ Advanced Technologies		
▶ Intel® vPro Technology ‡	No	No
▶ Intel® Hyper-Threading Technology †	No	<input checked="" type="checkbox"/> Yes
▶ Intel® Virtualization Technology (VT-x) ‡	<input checked="" type="checkbox"/> Yes	No
▶ Intel® Virtualization Technology for Directed I/O (VT-d) ‡	No	No
▶ Intel® 64 ‡	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
▶ Intel® HD Audio Technology	<input checked="" type="checkbox"/> Yes	
▶ Intel® Turbo Boost Technology †		No
▶ Enhanced Intel SpeedStep® Technology		No
▶ Intel® Virtualization Technology for Itanium (VT-i)		No
⊖ Intel® Data Protection Technology		
▶ AES New Instructions	<input checked="" type="checkbox"/> Yes	
⊖ Intel® Platform Protection Technology		
▶ Trusted Execution Technology ‡	No	
▶ Execute Disable Bit ‡	<input checked="" type="checkbox"/> Yes	