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Intel® Atom™ Processor E3845
(2M Cache, 1.91 GHz)

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SPECIFICATIONS

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Technology

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SPECIFICATIONS

Essentials

Status	Launched
Launch Date	Q4'13
Processor Number	E3845
# of Cores	4
# of Threads	4
Clock Speed	1.91 GHz
Cache	2 MB
Instruction Set	64-bit
Embedded Options Available	Yes
Lithography	22 nm
Max TDP	10 W
Recommended Customer Price	

Memory Specifications

Max Memory Size (dependent on memory type)	8 GB
Memory Types	DDR3L-1333
# of Memory Channels	2
ECC Memory Supported ‡	Yes

Graphics Specifications

Processor Graphics ‡	Intel® HD Graphics
Graphics Base Frequency	542 MHz
Graphics Burst Frequency	792 MHz
# of Displays Supported ‡	2

Expansion Options

PCI Express Revision	2.0
PCI Express Configurations ‡	x4, x2, x1
Max # of PCI Express Lanes	4

I/O Specifications

USB Revision	2.0, 3.0
Total # of SATA Ports	2
Integrated LAN	No
Integrated IDE	No
UART	Yes

Package Specifications

T$_{JUNCTION}$	-40°C to 110°C
Package Size	25mm x 27mm
Sockets Supported	FCBGA1170

RELATED PRODUCTS

- **Intel® Atom™ Processor**
- **Intel® Atom™ Processor E3800 Series**
- **Products formerly Bay Trail**

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Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® vPro Technology ‡		No
Intel® Hyper-Threading Technology ‡		No
Intel® Virtualization Technology (VT-x) ‡		Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡		No
Intel® 64 ‡		Yes
Intel® HD Audio Technology		Yes

Intel® Data Protection Technology

AES New Instructions		Yes

Intel® Platform Protection Technology

Trusted Execution Technology ‡		No
Execute Disable Bit ‡		Yes

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