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Intel® Atom™ Processor E640T
(512K Cache, 1.00 GHz)

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SPECIFICATIONS

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COMPATIBLE PRODUCTS

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SPECIFICATIONS

Essentials

Status	Launched
Launch Date	Q3'10
Processor Number	E640T
# of Cores	1
# of Threads	2
Clock Speed	1 GHz
L2 Cache	512 KB
PCI Express*	2500 MHz
FSB Parity	No
Instruction Set	32-bit
Embedded Options Available 🔍	Yes
Lithography	45 nm
Max TDP	3.6 W
VID Voltage Range	VCC (0.75 - 0.9V), VNN (0.75 - 1.1V)
Recommended Customer Price	TRAY: $37.00

Memory Specifications

Max Memory Size (dependent on memory type)	2 GB
Memory Types	DDR2-800
# of Memory Channels	1
ECC Memory Supported ‡ 🔍	No

Graphics Specifications

Processor Graphics ‡	Integrated
Graphics Base Frequency	320 MHz

Expansion Options

PCI Express Revision	1.0a
PCI Express Configurations ‡	x1, root complex only
Max # of PCI Express Lanes	4

Package Specifications

T$_{JUNCTION}$	110°C
Package Size	22mmx22mm
Sockets Supported	FCBGA676
Low Halogen Options Available	See MDDS

Advanced Technologies

Intel® Turbo Boost Technology ‡	No
Intel® Hyper-Threading Technology ‡ 🔍	Yes
Intel® Virtualization Technology (VT-x) ‡ 🔍	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡ 🔍	No
Intel® 64 ‡ 🔍	No
Idle States	Yes
Enhanced Intel SpeedStep® Technology 🔍	Yes
Intel® Demand Based Switching 🔍	No
Thermal Monitoring Technologies	Yes

Intel® Platform Protection Technology

Trusted Execution Technology ‡ 🔍	No
Execute Disable Bit ‡	Yes

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SLJ37
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