

## Specifications Intel® Core™ i5-3317U Processor

### Essentials

Status	Launched
Launch Date	Q2'12
Processor Number	i5-3317U
# of Cores	2
# of Threads	4
Clock Speed	1.7 GHz
Max Turbo Frequency	2.6 GHz
Intel® Smart Cache	3 MB
Bus/Core Ratio	17
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	AVX
Embedded Options Available	No
Lithography	22 nm
Max TDP	17 W
Recommended Customer Price	TRAY: \$225.00

### Memory Specifications

Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3/L/-RS 1333/1600
# of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC Memory Supported	No

### Graphics Specifications

Processor Graphics	Intel® HD Graphics 4000
Graphics Base Frequency	350 MHz

Graphics Max Dynamic Frequency	1.05 GHz
Graphics Output	eDP/DP/HDMI/SDVO/CRT
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Insider™	Yes
Intel® Wireless Display	Yes
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	Yes
Dual Display Capable	Yes
# of Displays Supported	3

### Expansion Options

PCI Express Revision	2.0
PCI Express Configurations	1x16, 2x8, 1x8 2x4
# of PCI Express Lanes	1

### Package Specifications

Max CPU Configuration	1
T <sub>JUNCTION</sub>	105 C
Package Size	31.0mm x 24.0mm
Graphics and IMC Lithography	22 nm
Sockets Supported	FCBGA1023
Low Halogen Options Available	See MDDS

### Advanced Technologies

Intel® Turbo Boost Technology	2.0
Intel® vPro Technology	No
Intel® Hyper-Threading Technology	Yes
Intel® Virtualization Technology (VT-x)	Yes
Intel® Virtualization Technology for	Yes

Directed I/O (VT-d)	
Intel® Trusted Execution Technology	No
AES New Instructions	Yes
Intel® 64	Yes
Intel® Anti-Theft Technology	Yes
Intel® My WiFi Technology	Yes
4G WiMAX Wireless Technology	Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	No
Thermal Monitoring Technologies	Yes
Intel® Fast Memory Access	Yes
Intel® Flex Memory Access	Yes
Execute Disable Bit	Yes
Intel® VT-x with Extended Page Tables (EPT)	Yes