

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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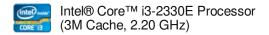
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SPECIFICATIONS

Essentials

Memory Specifications

Graphics Specifications

Expansion Options

Package Specifications

Advanced Technologies

COMPATIBLE PRODUCTS

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Specifications

Essentials		
Status	Launched	
Launch Date	Q2'11	
Processor Number	i3-2330E	
# of Cores	2	
# of Threads	4	
Clock Speed	2.2 GHz	
Intel® Smart Cache	3 MB	
DMI	5 GT/s	
Instruction Set	64-bit	
Instruction Set Extensions	AVX	
Embedded Options Available	Yes	
Lithography	32 nm	
MaxTDP	35 W	
Memory Specifications		
Max Memory Size (dependent on memory type)	16 GB	
Memory Types	DDR3-1066/1333	
# of Memory Channels	2	
Max Memory Bandwidth	21.3 GB/s	
ECC Memory Supported	No	
Graphics Specifications		
Processor Graphics	Intel® HD Graphics 3000	
Graphics Base Frequency	650 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® Wireless Display	Yes	
Intel® Flexible Display Interface (Intel® FDI)	Yes	
Intel® Clear Video HD Technology	Yes	
Dual Display Capable	Yes	

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ADDITIONAL INFORMATION

PCN/MDDS INFORMATION

SR02V 910245: PCN | MDDS

Expansion Options	
PCI Express Revision	2.0
PCI Express Configurations	1x16 1x4, 2x8 1x4, 1x8 3x4
Package Specifications	
TJUNCTION	100 C
Package Size	37.5mm x 37.5mm (rPGA988)
Graphics and IMC Lithography	32 nm
Sockets Supported	FCPGA988
Halogen Free Options Available	Yes

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® processor supporting HT Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See www.intel.com/products/ht/hyperthreading_more.htm for more information including details on which processors support HT Technology.

Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software, enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled VMM applications are currently in

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Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/products/processor_number for details.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

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Halogen Free implies the following:

Bromine and/or chlorine in materials that may be used during processing, but do not remain within the final product are not included in this definition. The halogens fluorine (F), iodine (I), and astatine (At) are not restricted by this standard.

BFRICFR and PVC-Free" Definition:

All PCB laminates must meet Br and Cl requirements for low halogen as defined in IPC-4101B For components other than PCB laminates, all homogeneous materials must contain < 900 ppm (0.09%) of Bromine [if the Bromine (Br) source is from BFRs] and < 900 ppm (0.09%) of Chlorine [if the Chlorine (Cl) source is from BFRs] and < 900 ppm (0.09%) of are allowed in homogeneous materials of components other than PCB laminates as long as their sources are not BFRs, CFRs, PVC.

Although the elemental analysis for Br and Cl in homogeneous materials can be performed by any analytical method with sufficient sensitivity and selectivity, the presence or absence of BFRs, CFRs or PVC must be verified by any acceptable analytical techniques that allow for the unequivocal identification of the specific Br or Cl compounts, or by appropriate material declarations agreed to between customer and supplier.

Max Turbo Frequency refers to the maximum single-core frequency that can be achieved with Intel® Turbo Boost Technology, which requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on $hardware, software, and overall \, system \, configuration. \, Check \, with \, your \, PC \, \, manufacturer \, on \, configuration \, and \, configuration \, configura$ whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology /turboboost/ for more information.

Advanced Technologies		
Intel® Turbo Boost Technology	No	
Intel® vPro Technology	No	
Intel® Hyper-Threading Technology	Yes	
Intel® Virtualization Technology (VT-x)	Yes	
Intel® Virtualization Technology for Directed I/O (VT-d)	No	
Intel® Trusted Execution Technology	No	
AES New Instructions	No	
Intel® 64	Yes	
Intel® Anti-Theft Technology	Yes	
Intel® My WiFi Technology	Yes Yes	
4G WiMAX Wireless Technology		
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	

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Product Specs

Intel® Processors

2nd Generation Intel® Core™ i3 Processors

Intel® Core™ i3-2300 Mobile Processor Series

i3-2330F



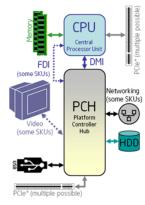
Intel® Core™ i3-2330E Processor (3M Cache, 2.20 GHz)

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2nd Generation Intel® Core™ i3 Processors

Intel® Core™ i3-2300 Mobile Processor Series

i3-2330E



Intel® Core™ i3-2330E Processor (3M Cache, 2.20 GHz)

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ORDERING AND SPEC INFORMATION

Ordering and Spec Information Intel® Core™ i3-2330E Processor (3M Cache, 2.20 GHz) FC-PGA10,

Socket	Step	Step TDP	Ordering Code	Spec Code	Halogen Free	VT-x
FCPGA988	D2	35 W	FF8062700849000	SR02V	Yes	Yes

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