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Intel® CG82NM10 PCH

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Specifications

Essentials

Status	Launched
Launch Date	Q1'10
Embedded Options Available	No
Supplemental SKU	No
Lithography	130 nm
Max TDP	2.1 W
Recommended Channel Price	\$20.00

Graphics Specifications

Graphics Output	in Atom Processor
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Expansion Options

PCI Support	Yes - 2 Masters
PCI Express Revision	2.0
PCI Express Configurations	static config as 1x4 or 4x1
# of PCI Express Ports	4

I/O Specifications

USB Revision	2.0
# of USB Ports	8
# of SATA Ports	2

Package Specifications

Max CPU Configuration	1
TCASE	115°C
Package Size	17mm x 17mm
Halogen Free Options Available	No

Advanced Technologies

Intel® Virtualization Technology for Directed I/O (VT-d)		No
Intel® Trusted Execution Technology		No
Intel® vPro Technology		No

Intel® Active Management Technology	No
Intel® Remote PC Assist Technology	No
Intel® Anti-Theft Technology	No
Intel® Quick Resume Technology	No
Intel® Quiet System Technology	No
Intel® HD Audio Technology	Yes
Intel® AC97 Technology	Yes
Intel® Matrix Storage Technology	No
Intel® I/O Acceleration Technology	No

Ordering and Spec Information

Ordering and Spec Information Intel® CG82NM10 Platform Controller Hub

Socket	Step	Step TDP	Ordering Code	Spec Code	Halogen Free	VT-x
N/A360	2.1 W	CG82NM10	SLGXX	No		

Disclaimers

“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 development.

Note: Prices subject to change without notice. Prices are for direct Intel customers in 1000-unit bulk quantities and, unless specified, represent the latest technology versions of the products. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply.

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.

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

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.

“BFR/CFR 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 CFRs or PVC. Higher concentrations of Br and Cl are allowed in homogenous 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 compounds, 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 whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.