



# Intel® 82Q965 Graphics and Memory Controller

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Essentials

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Product Collection	Intel® 960 Series Chipsets
Code Name	Products formerly Broadwater
Status	Launched
Launch Date ?	Q3'06
Supported FSBs ?	1066MHz
FSB Parity ?	No
TDP ?	28 W
Recommended Customer Price ?	
Use Conditions ?	PC/Client/Tablet

Supplemental Information

Embedded Options Available ?	Yes
Datasheet	<a href="#">View now</a>

Memory Specifications

Max Memory Size (dependent on memory type) ?	8 GB
Memory Types ?	DDR2 533/667/800
Max # of Memory Channels ?	2
Max Memory Bandwidth ?	12.8 GB/s
Physical Address Extensions ?	36-bit
ECC Memory Supported † ?	No


Processor Graphics

Integrated Graphics † ?	Yes
Graphics Output ?	SVDO, VGA
Intel® Clear Video Technology ?	No
# of Displays Supported †	2
Macrovision* License Required	No



Expansion Options

PCI Express Revision ?	1.1
PCI Express Configurations † ?	1x16

### Package Specifications

Max CPU Configuration	1
T <sub>CASE</sub> 	97°C
Package Size	34mm x 34mm
Low Halogen Options Available	See MDDS

### Advanced Technologies

Intel® Fast Memory Access 	Yes
Intel® Flex Memory Access 	Yes

### More support options for Intel® 82Q965 Graphics and Memory Controller



Product Support



Downloads and Software



Support Community



Warranty and Replacement



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Refer to Datasheet for formal definitions of product properties and features.

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

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

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

Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

