

Performance/Mainstream Desktop Chipsets								
	Intel® 875P Chipset	Intel® 865G Chipset	Intel® 865PE Chipset	Intel® 865P Chipset	Intel® 865GV Chipset	Intel® 850E Chipset	Intel® 848P Chipset	Intel® 845G Chipset
HOST	875P Chipset	865G Chipset	865PE Chipset	865P Chipset	865GV Chipset	850E Chipset	848P Chipset	845G Chipset
Target Segment	Entry-level Workstation, Performance PC, Mainstream PC	Performance PC, Mainstream PC	Performance PC, Mainstream PC	Performance PC, Mainstream PC	Performance PC, Mainstream PC	Entry-level Workstation, Performance PC, Mainstream PC	Mainstream PC	Mainstream PC
Processor	Pentium® 4 processor	Pentium® 4 processor	Pentium® 4 processor	Pentium® 4 processor	Pentium® 4 processor	Pentium® 4 or Celeron® processor	Pentium® 4 processor	Pentium® 4 or Celeron® processor
Hyper-Threading Technology¹	Optimized for HT Technology ¹	Optimized for HT Technology	Optimized for HT Technology	Supports HT Technology	Optimized for HT Technology	Supports HT Technology	Supports HT Technology	Supports HT Technology**
System Bus	800/533 MHz	800/533/400 MHz	800/533/400 MHz	533/400 MHz	800/533/400 MHz	533/400 MHz	800/533/400 MHz	533/400 MHz
Processor Package	mPGA478	mPGA478	mPGA478	mPGA478	mPGA478	mPGA478	mPGA478	mPGA478
Number Processors	1	1	1	1	1	1	1	1
MEMORY CONTROLLER HUB	875P Chipset	865G Chipset	865PE Chipset	865P Chipset	865GV Chipset	850E Chipset	848P Chipset	845G Chipset
Type	82875P MCH	82865G GMCH	82865PE MCH	82865P MCH	82865G GMCH	82850E MCH	82848P MCH	82845G MCH
Package	1005 FC-BGA	932 FC-BGA	932 FC-BGA	932 FC-BGA	932 FC-BGA	615 OLGA	932 FC-BGA	760 FC-BGA
MEMORY	875P Chipset	865G Chipset	865PE Chipset	865P Chipset	865GV Chipset	850E Chipset	848P Chipset	845G Chipset
Memory Modules	2 DIMMs/2 channel	2 DIMMs/2 channel	2 DIMMs/2 channel	2 DIMMs/2 channel	2 DIMMs/2 channel	4 RIMMs	2 DIMMs	2 DDR or SDR DIMMs
Memory Type	Dual-Channel DDR 400/333/266 SDRAM	Dual-Channel DDR 400/333/266 SDRAM	Dual-Channel DDR 400/333/266 SDRAM	Dual-Channel DDR 333/266 SDRAM	Dual-Channel DDR 400/333/266 SDRAM	PC1066-32 PC800-40 RDRAM	DDR 400/333/266 SDRAM	DDR 266/200 SDRAM, PC133 SDRAM
FSB/Memory Configurations	800/400 800/333 533/333 533/266	800/400 800/333 533/333 533/266 400/333 400/266	800/400 800/333 533/333 533/266 400/333 400/266	533/333 533/266 400/333 400/266	800/400 800/333 533/333 533/266 400/333 400/266	533/PC1066-32 533/PC800-40 400/PC800-40	800/400 800/333 533/333 533/266 400/333 400/266	533/266 533/200 400/266 400/200 400/133
Max Memory	4 GB	4 GB	4 GB	4 GB	4 GB	2 GB (1.5 GB - PC1066)	2 GB	2 GB
Mbit Support	512/256/128 Mbit	512/256/128 Mbit	512/256/128 Mbit	512/256/128 Mbit	512/256/128 Mbit	288/256 Mbit, 144/128 Mbit	512/256/128 Mbit	512/256/128 Mbit
Error Correction	ECC/Non-ECC	Non-ECC	Non-ECC	Non-ECC	Non-ECC	ECC/Non-ECC	Non-ECC	Non-ECC
EXTERNAL GRAPHICS	875P Chipset	865G Chipset	865PE Chipset	865P Chipset	865GV Chipset	850E Chipset	848P Chipset	845G Chipset
Interface	AGP8X (1.5V)	AGP8X (1.5V)	AGP8X (1.5V)	AGP8X (1.5V)	N/A	AGP4X (1.5V)	AGP8X (1.5V)	AGP8X (1.5V)
INTEGRATED GRAPHICS	875P Chipset	865G Chipset	865PE Chipset	865P Chipset	865GV Chipset	850E Chipset	848P Chipset	845G Chipset
Type	N/A	Intel® Extreme Graphics 2	N/A	N/A	Intel® Extreme Graphics 2	N/A	N/A	Intel® Extreme Graphics

Core Speed	N/A	266 MHz	N/A	N/A	266 MHz	N/A	N/A	N/A
Max Dynamic Video Memory	N/A	64MB ² if >128MB RAM 32MB if <=128mb RAM	N/A	N/A	64MB ² if >128MB RAM 32MB if <=128mb RAM	N/A	N/A	64MB ² if >128MB RAM 32MB if 128 to 255 RAM
Zone Rendering	N/A	Yes	N/A	N/A	Yes	N/A	N/A	Yes
Video / Display	N/A	350MHz DAC 2x12bit DVO ³	N/A	N/A	350MHz DAC 2x12bit DVO ³	N/A	N/A	350MHz DAC 2x12bit DVO ³
I/O CONTROLLER HUB	875P Chipset	865G Chipset	865PE Chipset	865P Chipset	865GV Chipset	850E Chipset	848P Chipset	845G Chipset
Type	Intel® ICH5 / ICH5R	ICH5 / ICH5R	ICH5 / ICH5R	ICH5 / ICH5R	ICH5 / ICH5R	Intel® ICH2	ICH5 / ICH5R	ICH4
ICH Package	460 mGBA	460 mGBA	460 mGBA	460 mGBA	460 mGBA	360 EBGA	460 mGBA	421 mBGA
PCI Support	PCI 2.3	PCI 2.3	PCI 2.3	PCI 2.3	PCI 2.3	PCI 2.2	PCI 2.3	PCI 2.2
PCI Masters	6	6	6	6	6	6	6	6
IDE	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100	ATA/100 IAA ⁴	ATA/100 IAA ⁴	ATA/100 IAA ⁴
Serial ATA/Ports	SATA 150/2	SATA 150/2	SATA 150/2	SATA 150/2	SATA 150/2	N/A	SATA 150/2	N/A
Intel® RAID Technology	RAID w/ICH5R	RAID w/ICH5R	RAID w/ICH5R	RAID w/ICH5R	RAID w/ICH5R	N/A	RAID w/ICH5R	N/A
USB Ports/Controllers	8 ports, USB 2.0	8 ports, USB 2.0	8 ports, USB 2.0	8 ports, USB 2.0	8 ports, USB 2.0	4 ports, USB 1.1	8 ports, USB 2.0	6 ports, USB 2.0
LAN MAC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GbE Dedicated Network Bus	Yes	Yes	Yes	Yes	Yes	No	Yes	No
AC'97	Enhanced 20-bit Audio	Enhanced 20-bit Audio	Enhanced 20-bit Audio	Enhanced 20-bit Audio	Enhanced 20-bit Audio	Yes	Enhanced 20-bit Audio	Enhanced 20-bit Audio
I/O Management	SMBus 2.0 / GPIO	SMBus 2.0 / GPIO	SMBus 2.0 / GPIO	SMBus 2.0 / GPIO	SMBus 2.0 / GPIO	SMBus / GPIO	SMBus 2.0 / GPIO	SMBus 2.0 / GPIO

¹Hyper-Threading Technology requires a computer system with an Intel® Pentium® 4 Processor supporting Hyper-Threading Technology and a HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See www.intel.com/info/hyperthreading/ for more information including details on which processors support HT Technology.

²For the [Intel® 865G and 865GV](#) chipsets, 64MB of Dynamic Video Memory with Intel® Extreme Graphics 2 Driver, version 13.0 or later. For the [Intel® 845G](#) chipset, 64MB of Dynamic Video Memory with Intel® Extreme Graphics Driver, version 11.1 or later.

³DVO = Intel® Digital Video Output Interface enables connection to TV or flat-panel displays.

⁴[Intel® Application Accelerator](#):: Accelerate boot time and disk I/O. Performs best on Pentium® 4 processor platforms.

** Intel 845G support of Hyper-Threading Technology begins with B-step.

Intel® processors, chipsets and graphics products may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

