

| 800 Chipset Family     | <a href="#">Intel® 860 Chipset</a>         | <a href="#">Intel® 850E Chipset</a> | <a href="#">Intel® 850 Chipset</a> | <a href="#">Intel® 845GV Chipset</a>                 | <a href="#">Intel® 845GL Chipset</a>    | <a href="#">Intel® 845G Chipset</a>                  | <a href="#">Intel® 845E Chipset</a>                  | <a href="#">Intel® 845 Chipset</a>      | <a href="#">Intel® 840 Chipset</a>                   | <a href="#">Intel® 820E Chipset</a>           | <a href="#">Intel® 820 Chipset</a>            | <a href="#">Intel® 815P Chipset</a>                | <a href="#">Intel® 815EG Chipset</a>                                | <a href="#">Intel® 815G Chipset</a>                                 | <a href="#">Intel® 810E2 Chipset</a>              | <a href="#">Intel® 810E Chipset</a>               | <a href="#">Intel® 810 Chipset</a>                        |
|------------------------|--------------------------------------------|-------------------------------------|------------------------------------|------------------------------------------------------|-----------------------------------------|------------------------------------------------------|------------------------------------------------------|-----------------------------------------|------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|
| HOST                   |                                            |                                     |                                    |                                                      |                                         |                                                      |                                                      |                                         |                                                      |                                               |                                               |                                                    |                                                                     |                                                                     |                                                   |                                                   |                                                           |
| Host Processor         | Intel® Xeon™ processor for DP workstations | Intel® Pentium® 4 processor         | Intel® Pentium® 4 processor        | Intel® Pentium® 4, Celeron®, or Celeron® D processor | Intel® Pentium® 4 or Celeron® processor | Intel® Pentium® 4, Celeron®, or Celeron® D processor | Intel® Pentium® 4, Celeron®, or Celeron® D processor | Intel® Pentium® 4 or Celeron® processor | Pentium® III processor, Pentium® III Xeon™ processor | Pentium® III processor, Pentium® II processor | Pentium® III processor, Pentium® II processor | Celeron® or Pentium® III processor (.13µ and .18µ) | Celeron® or Pentium® III processor (.13µ and .18µ)                  | Celeron® or Pentium® III processor (.13µ and .18µ)                  | Celeron® or Pentium® III Processor(.13µ and .18µ) | Celeron® or Pentium® III Processor(.13µ and .18µ) | Celeron® or Pentium® III processor, Pentium® II processor |
| Number Processors      | 1-2                                        | 1                                   | 1                                  | 1                                                    | 1                                       | 1                                                    | 1                                                    | 1                                       | 1-2                                                  | 1-2                                           | 1-2                                           | 1                                                  | 1                                                                   | 1                                                                   | 1                                                 | 1                                                 | 1                                                         |
| System Bus             | 400 MHz (data)                             | 533/400 MHz                         | 400 MHz                            | 533/400 MHz                                          | 400 MHz                                 | 533/400 MHz                                          | 533/400 MHz                                          | 400 MHz                                 | 133/100 MHz                                          | 133/100 MHz                                   | 133/100 MHz                                   | 133/100/66 MHz                                     | 133/100/66 MHz                                                      | 133/100/66 MHz                                                      | 133/100/66 MHz                                    | 133/100/66 MHz                                    | 100/66 MHz                                                |
| MEMORY CONTROLLER HUB  |                                            |                                     |                                    |                                                      |                                         |                                                      |                                                      |                                         |                                                      |                                               |                                               |                                                    |                                                                     |                                                                     |                                                   |                                                   |                                                           |
| Type                   | <a href="#">82860 MCH</a>                  | <a href="#">82850 MCH</a>           | <a href="#">82850 MCH</a>          | <a href="#">82845GV GMCH</a>                         | <a href="#">82845GL GMCH</a>            | <a href="#">82845G GMCH</a>                          | <a href="#">82845E MCH</a>                           | <a href="#">82845 MCH</a>               | <a href="#">82840 MCH</a>                            | <a href="#">82820 MCH</a>                     | <a href="#">82820 MCH</a>                     | <a href="#">82815EP MCH</a>                        | <a href="#">82815G GMCH</a>                                         | <a href="#">82810E GMCH</a>                                         | <a href="#">82810E GMCH</a>                       | <a href="#">82815G GMCH</a>                       | <a href="#">82810 GMCH</a>                                |
| Package                | 1024 OLGA                                  | 615 OLGA                            | 615 OLGA                           | 760 FC-BGA                                           | 760 FC-BGA                              | 760 FC-BGA                                           | 593 FC-BGA                                           | 593 FC-BGA                              | 544 BGA                                              | 324 BGA                                       | 324 BGA                                       | 544 BGA                                            | 544 BGA                                                             | 544 BGA                                                             | 421 BGA                                           | 421 BGA                                           | 421 BGA                                                   |
| MEMORY                 |                                            |                                     |                                    |                                                      |                                         |                                                      |                                                      |                                         |                                                      |                                               |                                               |                                                    |                                                                     |                                                                     |                                                   |                                                   |                                                           |
| Memory Modules         | 4 RIMMs, up to 8 RIMMs with MRH-R          | 4 RIMMs                             | 4 RIMMs                            | 2 DDR or 2 SDR DIMMs                                 | 2 DDR or 2 SDR DIMMs                    | 2 DDR or 2 SDR DIMMs                                 | 2 DDR DIMMs                                          | 2 DDR or 3 SDR DIMMs                    | 2 RIMMs, up to 4 RIMMs with <a href="#">MRH-R</a>    | 2 RIMMs                                       | 2 RIMMs                                       | 3 DIMMs                                            | 3 DIMMs                                                             | 3 DIMMs                                                             | 2 DIMMs                                           | 2 DIMMs                                           | 2 DIMMs                                                   |
| Memory Type            | PC800/600 RDRAM                            | PC1066/800 RDRAM                    | PC800/600 RDRAM                    | DDR 333/266/200, PC133 SDRAM                         | DDR 266/200, PC133 SDRAM                | DDR 266/200, PC133 SDRAM                             | DDR 266/200                                          | DDR 266/200, PC133 SDRAM                | PC800/600 RDRAM                                      | PC800/700/600 RDRAM                           | PC800/700/600 RDRAM                           | PC133/100 SDRAM                                    | PC133/100/66 SDRAM                                                  | PC133/100/66 SDRAM                                                  | PC100/66 SDRAM                                    | PC100/66 SDRAM                                    | PC100/66 SDRAM                                            |
| Max Memory             | 4 GB (w/ 2 repeaters)                      | 2 GB                                | 2 GB                               | 2 GB                                                 | 2 GB                                    | 2 GB                                                 | 2 GB                                                 | 2 GB DDR 3 GB SDR                       | 4 GB (w/ 2 repeaters)                                | 1 GB                                          | 1 GB                                          | 512 MB                                             | 512 MB                                                              | 512 MB                                                              | 512 MB                                            | 512 MB                                            | 512 MB                                                    |
| Mbit Support           | 288/256 Mbit 144/128 Mbit                  | 288/256 Mbit 144/128 Mbit           | 288/256 Mbit 144/128 Mbit          | 512/256/128 Mbit                                     | 512/256/128 Mbit                        | 512/256/128 Mbit                                     | 512/256/128 Mbit                                     | 512/256/128 Mbit                        | 256/128/64 Mbit                                      | 256/128/64 Mbit                               | 256/128/64 Mbit                               | 256/128/64/16 Mbit                                 | 256/128/64/16 Mbit                                                  | 256/128/64/16 Mbit                                                  | 128/64/16 Mbit                                    | 128/64/16 Mbit                                    | 128/64/16 Mbit                                            |
| ECC/Parity             | Yes                                        | Yes                                 | Yes                                | Non-ECC                                              | Non-ECC                                 | Non-ECC                                              | ECC/Non-ECC                                          | ECC/Non-ECC                             | Yes                                                  | Yes                                           | Yes                                           | N/A                                                | No                                                                  | No                                                                  | N/A                                               | N/A                                               | N/A                                                       |
| GRAPHICS               |                                            |                                     |                                    |                                                      |                                         |                                                      |                                                      |                                         |                                                      |                                               |                                               |                                                    |                                                                     |                                                                     |                                                   |                                                   |                                                           |
| Graphics               | AGP4X                                      | AGP4X                               | AGP4X                              | N/A                                                  | N/A                                     | AGP4X (1.5V)                                         | AGP4X (1.5V)                                         | AGP4X (1.5V)                            | AGP 4X/2X/1X                                         | AGP 4X/2X/1X                                  | AGP 4X/2X/1X                                  | AGP 4X/2X                                          | Integrated Intel® 3D with Direct AGP, 133/100 MHz 4MB display cache | Integrated Intel® 3D with Direct AGP, 133/100 MHz 4MB display cache | Integrated Intel® 3D with Direct AGP              | Integrated Intel® 3D with Direct AGP              | Integrated Intel® 3D with Direct AGP                      |
| I/O CONTROLLER HUB     |                                            |                                     |                                    |                                                      |                                         |                                                      |                                                      |                                         |                                                      |                                               |                                               |                                                    |                                                                     |                                                                     |                                                   |                                                   |                                                           |
| Type                   | <a href="#">ICH2</a>                       | <a href="#">ICH2</a>                | <a href="#">ICH2</a>               | <a href="#">ICH4</a>                                 | <a href="#">ICH4</a>                    | <a href="#">ICH4</a>                                 | <a href="#">ICH4</a>                                 | <a href="#">ICH2</a>                    | <a href="#">ICH</a>                                  | <a href="#">ICH2</a>                          | <a href="#">ICH</a>                           | <a href="#">ICH</a>                                | <a href="#">ICH2</a>                                                | <a href="#">ICH</a>                                                 | <a href="#">ICH2</a>                              | <a href="#">ICH</a>                               | <a href="#">ICH</a>                                       |
| Package                | 360 EBGA                                   | 360 EBGA                            | 360 EBGA                           | 421 mBGA                                             | 421 mBGA                                | 421 mBGA                                             | 421 mBGA                                             | 360 EBGA                                | 241 BGA                                              | 360 EBGA                                      | 241 BGA                                       | 241 BGA                                            | 360 EBGA                                                            | 241 BGA                                                             | 360 EBGA                                          | 241 BGA                                           | 241 BGA                                                   |
| PCI Masters            | 6                                          | 6                                   | 6                                  | 6                                                    | 6                                       | 6                                                    | 6                                                    | 6                                       | 6                                                    | 6                                             | 6                                             | 6                                                  | 6                                                                   | 6                                                                   | 6                                                 | 6                                                 | 6                                                         |
| PCI Support            | PCI 2.2                                    | PCI 2.2                             | PCI 2.2                            | PCI 2.2                                              | PCI 2.2                                 | PCI 2.2                                              | PCI 2.2                                              | PCI 2.2                                 | PCI 2.2                                              | PCI 2.2                                       | PCI 2.2                                       | PCI 2.2                                            | PCI 2.2                                                             | PCI 2.2                                                             | PCI 2.2                                           | PCI 2.2                                           | PCI 2.2                                                   |
| IDE                    | ATA/100 IAA†                               | ATA/100                             | ATA/100                            | ATA/100 IAA†                                         | ATA/100 IAA†                            | ATA/100 IAA†                                         | ATA/100 IAA†                                         | ATA/100 IAA†                            | ATA/66                                               | ATA/100                                       | ATA/66                                        | ATA/66                                             | ATA/66                                                              | ATA/100                                                             | ATA/66                                            | ATA/100 IAA†                                      | ATA/66                                                    |
| USB                    | 4 ports, USB 1.1                           | 2 controllers: 4 ports              | 2 controllers: 4 ports             | 6 ports, USB 2.0                                     | 6 ports, USB 2.0                        | 6 ports, USB 2.0                                     | 6 ports, USB 2.0                                     | 6 ports, USB 2.0                        | 1 controller: 2 ports                                | 2 controllers: 4 ports                        | 1 controller: 2 ports                         | 1 controller: 2 ports                              | 2 controllers: 4 ports                                              | 1 controller: 2 ports                                               | 2 controllers: 4 ports                            | 1 controller: 2 ports                             | 1 controller: 2 ports                                     |
| LAN MAC/PNA            | Yes                                        |                                     |                                    | Yes                                                  | Yes                                     | Yes                                                  | Yes                                                  | Yes                                     | No                                                   | Yes                                           | No                                            | No                                                 | Yes                                                                 | No                                                                  | Yes                                               | No                                                | No                                                        |
| AC'97 Digital Circuits | Audio/Mode m                               | Audio/Mode m                        | Audio/Mode m                       | Enhanced 20-bit Audio                                | Enhanced 20-bit Audio                   | Enhanced 20-bit Audio                                | Enhanced 20-bit Audio                                | Enhanced 20-bit Audio                   | Audio/Mode m                                         | Audio/Mode m                                  | Audio/Mode m                                  | Audio/Mode m                                       | Audio/Mode m                                                        | Audio/Mode m                                                        | Audio/Mode m                                      | Audio/Mode m                                      | Audio/Mode m                                              |
| MANAGEABILITY          |                                            |                                     |                                    |                                                      |                                         |                                                      |                                                      |                                         |                                                      |                                               |                                               |                                                    |                                                                     |                                                                     |                                                   |                                                   |                                                           |
| I/O Management         | SMBus / GPIO                               | SMBus / GPIO                        | SMBus / GPIO                       | SMBus 2.0 / GPIO                                     | SMBus 2.0 / GPIO                        | SMBus 2.0 / GPIO                                     | SMBus 2.0 / GPIO                                     | SMBus 2.0 / GPIO                        | SMBus / GPIO                                         | SMBus / GPIO                                  | SMBus / GPIO                                  | SMBus / GPIO                                       | SMBus / GPIO                                                        | SMBus / GPIO                                                        | SMBus / GPIO                                      | SMBus / GPIO                                      | SMBus / GPIO                                              |

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

The Intel® Pentium® II processor, Pentium® III processor, Pentium® III Xeon™ processor, Intel® 840 chipset, 820E chipset, 820 chipset, 815P chipset, 815EG chipset, 815G chipset, and Intel® 810 chipset 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.