

Mini-ITX Form Factor

| Model | SR100-N | CT132-B-BR | G5C100-N-G/-NR-G | G7V100-B-G/-N-G | G5G101-B-G | G5G100-P-G | G4G100-N-G |
|---------------------|---|---|---|--|---|---|---|
| RoHS | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Form Factor | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") |
| Chipset | Intel GME965 / ICH8M | Intel 945GME / ICH7M (-B) Intel 945GME / ICH7R (-BR) | Intel 945GME / ICH7M (-N) Intel 945GME / ICH7R (-NR) | Intel 915GV / ICH6 | Intel 915GME / ICH6M | Intel 915GME / ICH6M | Intel 915GV / ICH6 |
| Processor | Intel Core 2 Duo mobile | Intel Core 2 Duo / Core Duo / Solo / Celeron M | Intel Core 2 Duo / Core Duo / Solo / Celeron M | LGA775 Pentium 4 / Celeron D | Pentium M / Celeron M | Pentium M / Celeron M | Pentium 4 / Celeron D |
| FSB | 533 / 800 MHz | 533 / 667 MHz | 533 / 667 MHz | 533 / 800 MHz | 400 / 533 MHz | 400 / 533 MHz | 533 / 800 MHz |
| System Memory | 2 DDR2 533 / 667 SO-DIMMs up to 4GB | 1 DDR2 400/533/667 DIMMs up to 2GB | 2 DDR2 400 / 533 / 667 SO-DIMMs up to 4GB | 2 DDR2 400 / 533 DIMMs up to 2GB | 2 DDR2 400 / 533 SO-DIMMs up to 2GB | 2 DDR 333 DIMMs up to 2GB | 2 DDR 333 / 400 DIMMs up to 2GB |
| ECC Support | - | - | - | - | - | - | - |
| Graphics | mobile Intel GMA X3100 | Integrated GMA 950 | Integrated 2D / 3D graphics engine | Integrated 2D / 3D graphics engine | Integrated 2D / 3D graphics engine | Integrated 2D / 3D graphics engine | Integrated 2D / 3D graphics engine |
| PCI-Ex16 | - | 1 PCI-E x 16 | - | - | - | - | - |
| Display Output | VGA, LVDS, DVI (DVI-D only) | 1 VGA | 1 VGA, 1 LVDS, TV-out | 1 VGA | 1 VGA, 1 LVDS | 1 VGA, 1 LVDS | 1 VGA |
| LAN | 2 Giga LAN | 1 Gigabit LAN PHY | 2 Marvell Gigabit LAN PHY | 1 Marvell Gigabit LAN PHY (-B) 2 Marvell Gigabit LAN PHY (-N) | 1 Marvell Gigabit LAN PHY | 1 Gigabit LAN PHY | 2 Marvell Gigabit LAN PHY |
| Expansion Slot | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) | 1 PCI-E x 1, 1 PCI | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) |
| USB Port | 8 USB 2.0 / 1.1 4 Rear / 4 Opt. | 6 USB 2.0 / 1.1 4 Rear / 2 Opt. | 8 USB 2.0 / 1.1 4 Rear / 4 Opt. | 8 USB 2.0 / 1.1 4 Rear / 4 Opt. | 8 USB 2.0 / 1.1 4 Rear / 4 Opt. | 8 USB 2.0 / 1.1 4 Rear / 4 Opt. | 8 USB 2.0 / 1.1 4 Rear / 4 Opt. |
| COM Port | 2 COM 2 Rear (1 powered COM) | 2 COM 1 Rear / 1 Opt. | 4 COM 3 Rear / 1 Opt. (1 x RS485 & 2 powered COM) | 2 COM 1 Rear / 1 Opt. | 2 COM 1 Rear / 1 Opt. | 4 COM 3 Rear / 1 Opt. (1 x RS485 & 2 powered COM) | 4 COM 3 Rear / 1 Opt. (1 x RS485 & 2 powered COM) |
| Parallel Port | - | 1 | - | - | - | - | - |
| Serial ATA / RAID | 3 | 2x SATA (-B) 4x SATA w/RAID 0, RAID 1, RAID 0+1 and RAID 5 (-BR) | 2 | 2 | 2 | 2 | 4 |
| IDE Connector | 1 40pin IDE1 | 1 40pin IDE1 | 1 40pin IDE1 | 1 40pin IDE1 | 1 40pin IDE1 | 1 40pin IDE1 | 1 40pin IDE1 |
| CompactFlash | - | - | 1 | - | 1 | - | - |
| Floppy Connector | - | 1 | 1 | 1 | 1 | 1 | 1 |
| WatchDog Timer | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Audio Onboard | H D A | AC'97 | AC'97 | AC'97 | AC'97 | AC'97 | AC'97 |
| Power Solution | X100-DC20 X100-DC24 | X100-DC20 X100-DC24 | X100-DC20 X100-DC24 | X100-DC20 X100-DC24 | 16-22V DC power in DC Jack | X100-DC20 X100-DC24 | - |
| Expansion Reference | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 Digital I / O (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 (reference to peripheral page) |



Industrial Motherboard
Specifications

Mini-ITX Form Factor

| Model | BL100-N | G4M100-MS12-G | G4V100-P-G | G5M100-N-G | G5M150-N-G | G5M101-B-G | G5M150-N06C/-N10-G |
|---------------------|---|---|---|---|--|--|--|
| RoHS | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Form Factor | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") |
| Chipset | Intel Q35 / ICH6 | Intel 852GM / ICH4 | Intel 845GV / ICH4 | Intel 855GME / ICH4 | Intel 852GME / ICH4 | Intel 855GME / ICH4 | Intel 852GM / ICH4 |
| Processor | Intel Core 2 Duo Intel Core 2 Quad | Mobile Intel Celeron 1.2G CPU bundled w/ CPU cooler | Pentium 4 / Celeron | Pentium M / Celeron M | Pentium M / Celeron M | Pentium M / Celeron M | ULV Celeron M 600MHz 512k Cache (-N06C) ULV Celeron M 1GHz 0 Cache (-N10) |
| FSB | 800/1066/1333 MHz | 400 MHz | 400 / 533 MHz | 400 MHz | 400 / 533 MHz | 400 MHz | 400 MHz |
| System Memory | 1 DDR2 667 / 800 DIMM up to 2GB | 2 DDR 200 / 266 DIMMs up to 1GB | 2 DDR 200 / 266 / 333 DIMMs up to 2GB | 2 DDR 200 / 266 / 333 DIMMs up to 1GB | 2 DDR 200 / 266 / 333 DIMMs up to 1GB | 1 DDR 200 / 266 / 333 DIMMs up to 1GB | 2 DDR 200 / 266 DIMMs up to 1GB |
| ECC Support | - | - | - | Yes | Yes | Yes | - |
| Graphics | Integrated Intel GMA 3100 graphics engine | Integrated 2D / 3D graphics engine | Integrated 2D / 3D graphics engine | Integrated 2D / 3D graphics engine | Integrated 2D / 3D graphics engine | Integrated 2D / 3D graphics engine | Integrated 2D / 3D graphics engine |
| PCI-Ex16 | - | - | - | - | - | - | - |
| Display Output | 1 VGA, 1 LVDS | 1 VGA , 1 LVDS | 1 VGA , 1 LVDS | 1 VGA , 1 LVDS | 1 VGA , 1 LVDS | 1 VGA , 1 LVDS | 1 VGA , 1 LVDS |
| LAN | 2 Realtek Gigabit LAN PHY | 1 Intel 10 / 100 LAN PHY | 1 Intel 10 / 100 LAN PHY | 2 Intel 10 / 100 LAN PHY | 2 Intel 10 / 100 LAN PHY | 1 Intel 10 / 100 LAN PHY | 2 Intel 10 / 100 LAN PHY |
| Expansion Slot | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) | 1 PCI for 1, 2 or 3 PCI expansion (Low profile PCI only) 1 Mini-PCI | 1 PCI for 1,2,3 PCI expansion 1 Mini-PCI | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) | 1 PCI 1 Mini-PCI |
| USB Port | 6 USB 2.0 / 1.1 4 Rear / 2 Opt. | 6 USB 2.0 / 1.1 4 Rear / 2 Opt. | 6 USB 2.0 / 1.1 2 Rear / 4 Opt. | 6 USB 2.0 / 1.1 4 Rear / 2 Opt. | 6 USB 2.0 / 1.1 4 Rear / 2 Opt. | 6 USB 2.0 / 1.1 4 Rear / 2 Opt. | 6 USB 2.0 / 1.1 4 Rear / 2 Opt. |
| COM Port | 4 COM 3 Rear / 1 Opt. (1 x RS485 & 2 powered COM) | 4 COM 3 Rear / 1 Opt. | 4 COM 2 Rear / 2 Opt. (1 x RS485 & 2 powered COM) | 4 COM 3 Rear / 1 combine with LVDS (1xRS485) | 4 COM 3 Rear / 1 combine with LVDS (1xRS485) | 2 COM 1 Rear / 1 Opt. | 4 COM 3 Rear 1 combine with LVDS (1xRS485) |
| Parallel Port | 1 | - | 1 | 1 Opt. | 1 Opt. | - | 1 Opt. |
| Serial ATA / RAID | 4 | 2 | - | - | - | - | - |
| IDE Connector | - | 1 40pin IDE1 1 44pin IDE2 | 1 40pin IDE1 1 44pin IDE2 | 1 40pin IDE1 1 44pin IDE2 | 1 40pin IDE1 1 44pin IDE2 | 1 40pin IDE1 1 44pin IDE1 | 1 40pin IDE1 1 44pin IDE2 |
| CompactFlash | - | - | - | - | - | - | - |
| Floppy Connector | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| WatchDog Timer | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Audio Onboard | AC'97 | AC'97 | AC'97 | AC'97 | AC'97 | AC'97 | AC'97 |
| Power Solution | - | X100-DC12 X100-DC20 X100-DC24 | X100-DC20 X100-DC24 | X100-DC12 X100-DC20 X100-DC24 | X100-DC12 X100-DC20 X100-DC24 | 12V DC power in DC Jack | X100-DC12 X100-DC20 X100-DC24 |
| Expansion Reference | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 (reference to peripheral page) |



Mini-ITX Form Factor

| Model | G5M151-B06C/B10-G | G3N101-B10/B16-G |
|---------------------|--|--|
| RoHS | Yes | Yes |
| Form Factor | Mini-ITX (6.70" x 6.70") | Mini-ITX (6.70" x 6.70") |
| Chipset | Intel 852GM / ICH4 | VIA CN700 / VT8237R Plus |
| Processor | ULV Celeron M 600MHz 512k Cache (-B06C) ULV Celeron M 1GHz 0 Cache (-B10) | VIA Eden nanoEBGA2 package with V4 Bus 1.0GHz processor onboard (-B10) VIA C7 with Bus 1.6GHz Processor onboard (-B16) |
| FSB | 400 MHz | 400 MHz |
| System Memory | 1 DDR 200/ 266 DIMMs up to 1GB | 2 DDR2 400/ 533 DIMMs up to 2GB |
| ECC Support | - | - |
| Graphics | Integrated 2D / 3D graphics engine | Integrated 2D / 3D graphics engine |
| PCI-Ex16 | - | - |
| Display Output | 1 VGA , 1 LVDS | 1 VGA , 2 LVDS |
| LAN | 1 Intel 10 / 100 LAN PHY | VIA VT6103 10 / 100 LAN PHY |
| Expansion Slot | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) | 1 PCI slot for 1, 2 or 3 PCI expansion (Low profile PCI only) |
| USB Port | 6 USB 2.0 / 1.1 4 Rear / 2 Opt. | 6 USB 2.0 / 1.1 4 Rear / 2 Opt. |
| COM Port | 2 COM 1 Rear / 1 Opt. | 2 COM 1 Rear / 1 Opt. |
| Parallel Port | - | - |
| Serial ATA / RAID | - | 2 |
| IDE Connector | 1 40pin IDE2 1 44pin IDE1 | 1 40pin IDE1 1 44pin IDE2 |
| CompactFlash | - | 1 Opt. |
| Floppy Connector | 1 | 1 |
| WatchDog Timer | Yes | Yes |
| Audio Onboard | AC'97 | AC'97 |
| Power Solution | 12V DC power in DC Jack | X100-DC12 |
| Expansion Reference | X100-1PC1 X100-2PC2 X100-2PC3 (reference to peripheral page) | X100-1PC1 X100-2PC2 X100-2PC3 SIL3811 (reference to peripheral page) |

Core 2 Quad & Core 2 Duo Solutions

| Model | CA230-BF | BL330-B/-BR | BL630-D/-DR | G7B330-B-G | G7B630-B/-N/-NR |
|---------------------|---|---|---|--|---|
| RoHS | Yes | Yes | Yes | Yes | Yes |
| Form Factor | Mini-DTX (8" x 6.7") | Micro-ATX (9.6" x 8.86") | ATX (12" x 9.6") | Micro-ATX (9.6" x 8.86") | ATX (12" x 9.6") |
| Chipset | Intel Gantiga GM45 / ICH9M | Intel Q35 / ICH9 (-B) Intel Q35 / ICH9R (-BR) | Intel Q35 / ICH9 (-D) Intel Q35 / ICH9R (-DR) | Intel Q965 / ICH8 | Intel Q965 / ICH8 (-B/-N) Intel Q965 / ICH8DO (-NR) |
| Processor | Intel Penryn processor ZIF 478 socket for: Intel architecture / Intel Wide Dynamic Execution 45nm processors | LGA 775 socket for: Intel Core 2 Quad / Intel Core 2 Duo Intel Wolfdale 45nm processors | LGA 775 socket for: Intel Core 2 Quad / Intel Core 2 Duo Intel Wolfdale 45nm processors | Intel Core 2 Quad / Core 2 Duo / Pentium D / Pentium 4 / Celeron D / | Intel Core 2 Quad / Intel Core 2 Duo (Conroe family) / Intel Pentium D / Intel Pentium 4 or Intel Celeron / Intel Celeron D |
| FSB | 1066 / 800 / 667 MHz | 1333 / 1066 / 800 MHz | 1333 / 1066 / 800 MHz | 533 / 800 / 1066 MHz | 533 / 800 / 1066 MHz |
| System Memory | Dual-channel DDR2 667/800 DIMMs up to 8GB | 4 DDR2 667/800 DIMMs up to 8GB | 4 DDR2 667/800 DIMMs up to 8GB | 2 DDR2 533 / 667 / 800 DIMMs up to 4GB | 4 DDR2 533 / 667 / 800 up to 8GB |
| Graphics | Integrated Intel Gen 5.0 | Integrated Intel GMA3100 | Integrated Intel GMA3100 | Integrated GMA 3000 | Integrated GMA 3000 |
| PCI-Ex16 | 1 PCI-Ex16 | 1 PCI-Ex16 | 1 PCI-Ex16 | 1 PCI-Ex16 | 1 PCI-Ex16 |
| Display Output | 1 VGA, 1 LVDS | 1 VGA | 1 VGA | 1 VGA | 1 VGA |
| LAN | 1 Gigabit LAN PHY | 1 Gigabit LAN PHY | 2 Gigabit LAN PHY | 1 Marvell Gigabit LAN PHY | 1 Gigabit LAN PHY (-B) 2 Gigabit LAN PHY (-N/-NR) |
| Expansion Slot | 1 PCI | 1 PCI-E , 2 PCI | 1 PCI-E x 1 , 4 PCI | 1 PCI-E x 4 , 2 PCI | 2 PCI-E x 1 , 4 PCI |
| USB Port | 8 USB 2.0 / 1.1 | 8 USB 2.0 / 1.1 4 Rear | 12 USB 2.0 / 1.1 6 Rear / 6 Opt. | 4 USB 2.0 / 1.1 4 Rear | 10 USB 2.0 / 1.1 4 Rear / 6 Opt. |
| COM Port | 2 COM | 2 COM 1 Rear / 1 Opt. | 2 COM 1 Opt. | 2 COM 1 Rear / 1 Opt. | 2 COM 1 Rear / 1 Opt. |
| Parallel Port | - | 1 | 1 | 1 | 1 |
| Serial ATA | 4 | 4 SATA (-B) 6 SATA, RAID 0, RAID 0, RAID 1, RAID 0+1 and RAID 5 (-BR) | 4 SATA (-D) 6 SATA, RAID 0, RAID 1, RAID 0+1 and RAID 5 (-DR) | 4 | 4 SATA (-B/-N) 6 SATA, RAID 0, RAID 1, RAID 0+1 and RAID 5 (-NR) |
| IDE Connector | 1 | 1 | 1 | 1 | 1 |
| Floppy Connector | - | 1 | 1 | 1 | 1 |
| WatchDog Timer | Yes | Yes | Yes | Yes | Yes |
| Audio Onboard | Realtek ALC262 High Definition audio CODEC | Realtek High Definition audio CODEC | Realtek audio CODEC, 7.1 + 2-channel output.S/ PDF interface | Realtek audio CODEC, 8-channel output.S/ PDF interface | HD Audio |
| IEEE 1394 | - | - | - | - | 2 Opt. |
| Expansion Reference | - | - | - | - | - |



Industrial Motherboard
Specifications