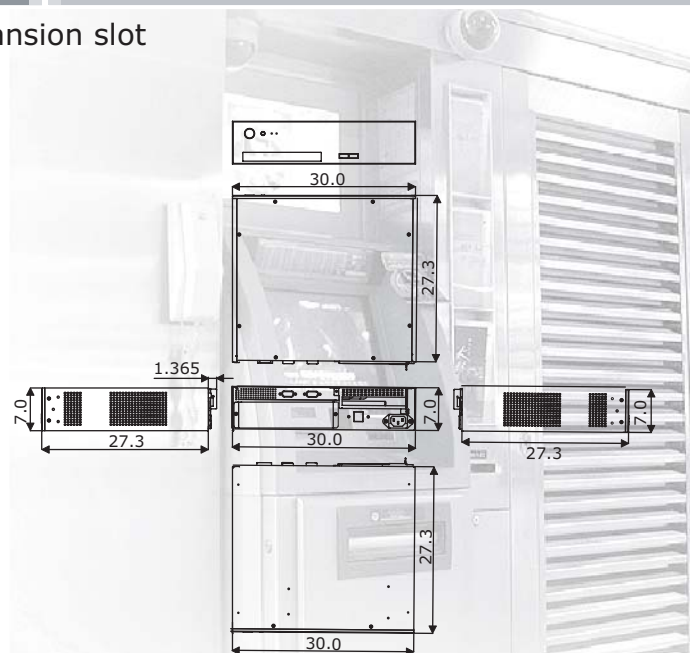


BBS-4020

Compact PC with 180W ATX P/S, 1 x Expansion slot



Features

- Compact PC design, built-in 180W ATX P/S
- BBS-4020-E w/HS-1752, provides Intel® P-M/C-M CPU, 7 x COM, 8 x USB2.0, option for DVI display
- BBS-4020-F w/HS-1754, provides Dual-Core Intel® Atom™ CPU, 1 x COM, 6 x USB2.0, 1 x PCI
- BBS-4020-K w/HS-1756, provides Socket P for Intel® Core™ 2 Duo CPU, 4 x COM, 8 x USB2.0, DVI display, 1 x PCIe x16
- BBS-4020-Q w/HS-1750, provides Intel® Core™ Duo T2050 CPU, 4 x COM, 8 x USB2.0, DVI display, 1 x PCI
- 1 x 2.5" HDD space or 1 x 3.5" HDD space (if using 3.5" HDD, PCI expansion slot will not be available)
- 2 x 4cm ball bearing cooling fan

Mechanical

- Thermal System**
2 x 4cm ball bearing cooling fan
- Dimensions (LxHxW)**
30.0 x 7.0 x 27.3 cm
- Operation/Storage Temperature**
0~+45 degrees C/-20~+70 degrees C
- EMC**
FCC/CE
- Power Supply**
100~240V AC in 180W ATX power supply

Ordering Guide

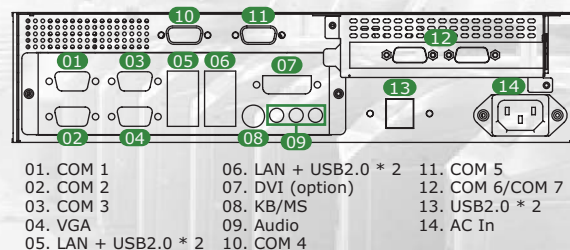
- BBS-4020-E**
Compact PC with HS-1752, 180W ATX P/S
- BBS-4020-F**
Compact PC with HS-1754, 180W ATX P/S
- BBS-4020-K**
Compact PC with HS-1756, 180W ATX P/S
- BBS-4020-Q**
Compact PC with HS-1750, 180W ATX P/S

Accessory Options

CPU, Memory Module, 2.5" HDD, 3.5" HDD, Slim CD-ROM, DVI Cable (only BBS-4020-E)

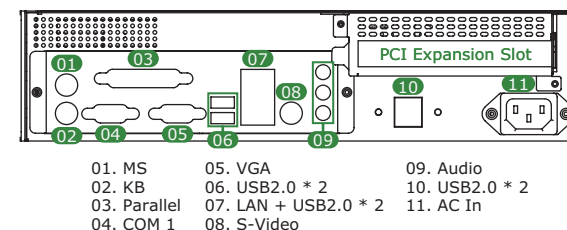
System

- BBS-4020-E**
SBC Model
HS-1752
CPU
Intel® Pentium® M/Celeron® M processor in the u-FCPGA 478 package (option)
BIOS
Award BIOS with 4Mb SPI Flash EEPROM
System Chipset
Intel® 915GME/ICH6-M
System Memory
2 x 240-pin DIMM sockets up to 2GB DDR2 SDRAM
Display Chipset
CRT: Intel® 915GME
DVI: Chrontel CH7307C (option)
Audio Chipset
RealTek ALC655 5.1CH audio codec
Ethernet Chipset
Dual RealTek RTL8111B 10/100/1000 Mbps LAN
Drive Bay
1 x 2.5" HDD space or 1 x 3.5" HDD space
Watchdog Timer
Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
External I/O
7 x COM, VGA, DVI (option), 2 x LAN, 8 x USB2.0 (2 on front panel), PS/2 KB/MS, Line In, Line Out, MIC In
Rear I/O



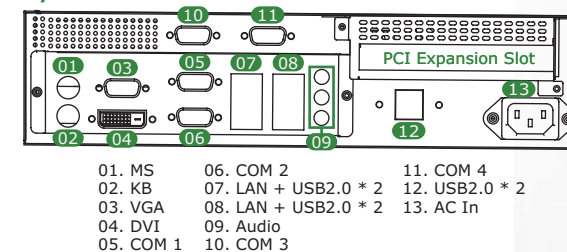
BBS-4020-F

- SBC Model**
HS-1754
CPU
Integrated Dual-Core Intel® Atom™ processor 330 with a 533MHz system bus
BIOS
Intel® BIOS (resident in the SPI Flash device)
System Chipset
Intel® 945GC/ICH7
System Memory
1 x 240-pin DIMM socket up to 2GB DDR2 SDRAM
Display Chipset
Intel® 945GC
Audio Chipset
RealTek ALC662 audio codec
Ethernet Chipset
RealTek RTL8111C 10/100/1000 Mbps LAN
Drive Bay
1 x 2.5" HDD space or 1 x 3.5" HDD space (if using 3.5" HDD, PCI expansion slot will not be available)
Expansion
1 x Standard PCI expansion slot (if using 3.5" HDD, PCI expansion slot will not be available)
External I/O
PS/2 MS, PS/2 KB, Parallel, 1 x COM, VGA, 6 x USB2.0 (2 on front panel), 1 x LAN, S-Video, Line In, Line Out, MIC In
Rear I/O



BBS-4020-Q

- SBC Model**
HS-1750
CPU
Intel® Core™ Duo T2050 processor
BIOS
Award BIOS with 4Mb Flash EEPROM
System Chipset
Intel® 945GME/ICH7-M
System Memory
2 x 200-pin SO-DIMM sockets up to 4GB DDR2 SDRAM
Display Chipset
CRT: Intel® 945GME
DVI: Chrontel CH7307
Audio Chipset
RealTek ALC655 5.1CH audio codec
Ethernet Chipset
Dual Marvell 88E8053 10/100/1000 Mbps LAN
Drive Bay
1 x 2.5" HDD space or 1 x 3.5" HDD space (if using 3.5" HDD, PCI expansion slot will not be available)
Watchdog Timer
Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
Expansion
1 x Standard PCI expansion slot (if using 3.5" HDD, PCI expansion slot will not be available)
External I/O
PS/2 MS, PS/2 KB, VGA, DVI, 4 x COM, 2 x LAN, 8 x USB2.0 (2 on front panel), Line In, Line Out, MIC In
Rear I/O



BBS-4020-K

- SBC Model**
HS-1756
CPU
Socket P for Intel® Core™ 2 Duo T8000/T9000 series (option)
BIOS
AMI BIOS with 32Mb SPI ROM
System Chipset
Intel® GM45/ICH9-ME
System Memory
2 x 200-pin DDR3 800/1066MHz SO-DIMM
Max. up to 4GB memory
Display Chipset
CRT: Intel® GM45
DVI: Chrontel CH7318 DVI transmitter
Audio Chipset
RealTek ALC888 HD codec
Ethernet Chipset
Intel® 82567 and 82574L dual 10/100/1000 Mbps LAN
Drive Bay
1 x 2.5" SATA HDD space or 1 x 3.5" SATA HDD space (if using 3.5" HDD, PCI expansion slot will not be available)
Watchdog Timer
Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
Expansion
1 x PCIe x16 expansion slot (if using 3.5" HDD, PCI expansion slot will not be available)
External I/O
PS/2 MS, PS/2 KB, VGA, DVI, 4 x COM, 2 x LAN, 8 x USB2.0 (2 on front panel), Line In, Line Out, MIC In
Rear I/O

