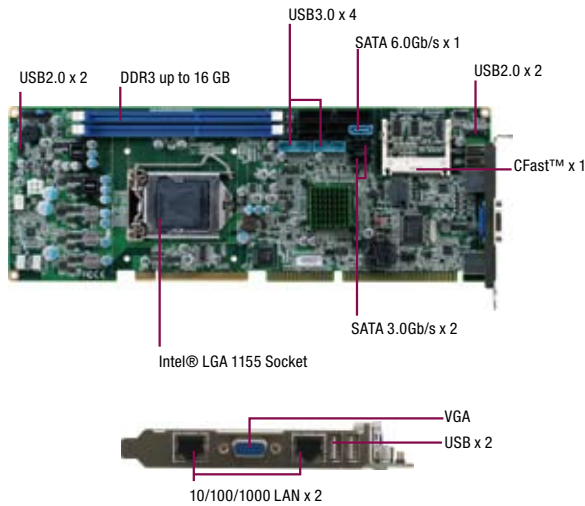


# FSB-B75G

Full-Size SBC with Intel® 3rd Generation Core™ i7/i5/i3 LGA 1155 Processor



## Features

- Intel® 3rd Generation Core™ i7/i5/i3 LGA 1155 Processor
- Intel® B75 Chipset
- Dual Channel DDR3 Memory DIMM Socket x 2 (up to 16GB)
- Intel® B75 Integrated Intel® HD Graphics
- 10/100/1000Base-TX Ethernet x 2
- SATA 6.0Gb/s x 1, SATA 3.0Gb/s x 2, CFast™ x 1 (Optional)
- COM x 2, USB3.0 x 4, USB 2.0 x 6
- PICMG 1.0
- ATX 2.1 Power Requirement

## Specifications

System	
Form Factor	PICMG 1.0 Full-Size SBC
Processor	Intel® 3rd Generation Core™ i7/i5/i3 LGA 1155 Processor
System Memory	240-pin Dual-Channel DDRIII 1333/1600 DIMM socket x 2, up to 16GB
Chipset	Intel® B75
Graphics	Intel® B75 Integrated Intel® HD Graphics
I/O Chipset	Winbond W83627DHG-P
Ethernet	Realtek 8111E, 10/100/1000Base-TX, RJ-45 x 2 on bracket
BIOS	AMI Plug & Play SPI BIOS – 128 MBit ROM
Audio	HDAC Daughter board (Optional), Mic-in/Line-in/Line-out/CD-in
Wake On LAN	Yes
Watchdog Timer	1~255 steps by software programming
H/W Status Monitoring	System temp, Voltage, and Cooling fan status
Expansion Interface	PICMG 1.0
Battery	Lithium battery
Power Requirement	ATX 2.1
Board Size	13.3" x 5" (339mm x 126mm)
Gross Weight	1.2 lb (0.5kg)
Operation Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Operation Humidity	5% ~ 90% relative humidity, non-condensing
Display	
Chipset	Intel® B75
Graphic Engine	Integrated Intel® HD Graphics
Resolution	Up to 2048 x 1536 @ 75Hz for CRT
Output Interface	VGA x 1 on bracket
I/O	
Storage	SATA 6.0Gb/s x 1, SATA 3.0Gb/s x 2, CFast™ x 1 (Optional)
Serial Port	COM ports x 2 COM 1: RS-232 with Box header COM 2: RS-232/422/485 with Box header
PS/2 Port	4x2 pin header x 1
USB	USB 3.0 x 4 (Internal 10 x 2 pin header x 2) USB2.0 x 6 (onboard Dual TYPE-A Connector x 2, Internal 5 x 2-pin header x 2)
Parallel Port	LPT Port x 1
Digital I/O	8-bit programmable (4-in / 4-out)



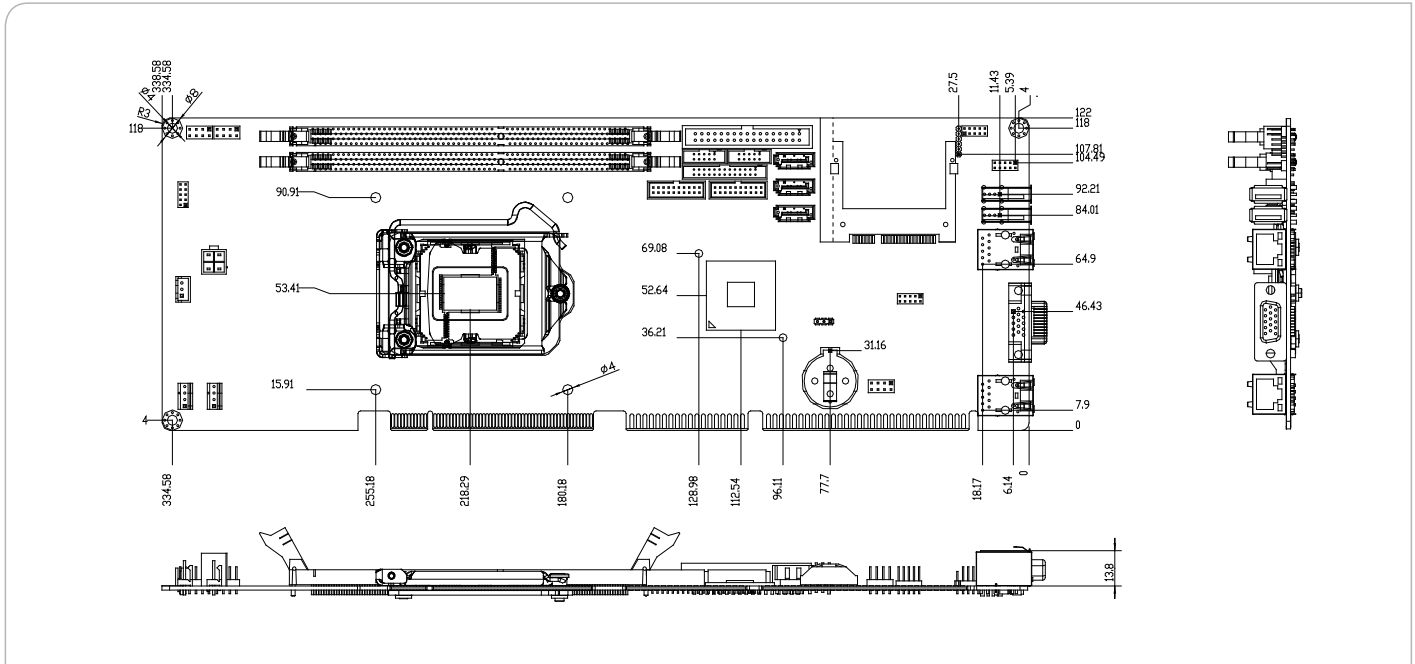
## Packing List

- **1701260307**  
Flat Cable, 9P/DB9P Male & 25P DB25P Female, 10P 2mm & 26P 2mm/IDC No Fold
- **1701100305**  
Flat Cable, 9P/DB9P Male, 10P/2.0mm Pitch/IDC No Fold, 30cm with Bracket
- **1709100201**  
USB Cable, 20cm, 2.0mm Pitch, with Bracket
- **1709070460**  
SATA Cable, 1.27mm Pitch, 46cm with Lock
- **1703030501**  
Wire, 3P 2.5mm Housing, 50cm
- **Product CD**
- **FSB-B75G**

# FSB-B75G

## Dimension

Unit: mm



## Passive Backplane Options

P/N	Description	Master Interface	Slots	Power Connector, ATX Extend Function
TF-BP-214SG-P12	Rackmount, PICMG 1.0, 14-Slot Backplane, 12 PCI, 2 ISA, Single Segment, AT/ATX	PICMG 1.0	12/2/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-214SG-P7	Rackmount, PICMG 1.0, 14-Slot Backplane, 7 PCI, 6 ISA, Single Segment, AT/ATX	PICMG 1.0	7/6/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-214SG-P4	Rackmount, PICMG 1.0, 14-Slot Backplane, 4 PCI, 9 ISA, Single Segment, AT/ATX	PICMG 1.0	4/9/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-206VG-P2	Rackmount, PICMG 1.0, 6-Slot Backplane, 2 PCI, 3 ISA, Single Segment, AT/ATX	PICMG 1.0	2/3/1 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-208SG-P7	Wallmount, PICMG 1.0, 8-Slot Backplane, 7 PCI, Single Segment, AT/ATX	PICMG 1.0	7/0/1 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-208SG-P4	Wallmount, PICMG 1.0, 8-Slot Backplane, 4 PCI, 3 ISA, Single Segment, AT/ATX	PICMG 1.0	4/3/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-206SG-P4	Wallmount, PICMG 1.0, 6-Slot Backplane, 4 PCI, 2 ISA, Single Segment, AT/ATX	PICMG 1.0	4/2/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-206SG-P2	Wallmount, PICMG 1.0, 6-Slot Backplane, 2 PCI, 3 ISA, Single Segment, AT/ATX	PICMG 1.0	2/3/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend

## Ordering Information

Part Number	CPU	RAM	Fan/Fanless	Display	Storage	LVDS	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Temp.
FSB-B75G-A10-G2	Socket	DIMM	Fan	VGA	SATA 6.0Gb/s x 1, SATA 3.0Gb/s x 2 (Backplane x 2)	—	GbE x 2	USB 3.0 x 4 USB 2.0 x 6	1	1	PICMG 1.0	ATX	0°C ~ 60°C

## Optional Accessories

- **TF-PER-U01H**  
HD Codec Audio Daughter Board
- **175920000D**  
CPU Fan + Heatsink
- **1709080207**  
K/B + M/S PS/2 Cable with Bracket
- **1700190450**  
2 Ports USB3.0 Cable with Bracket