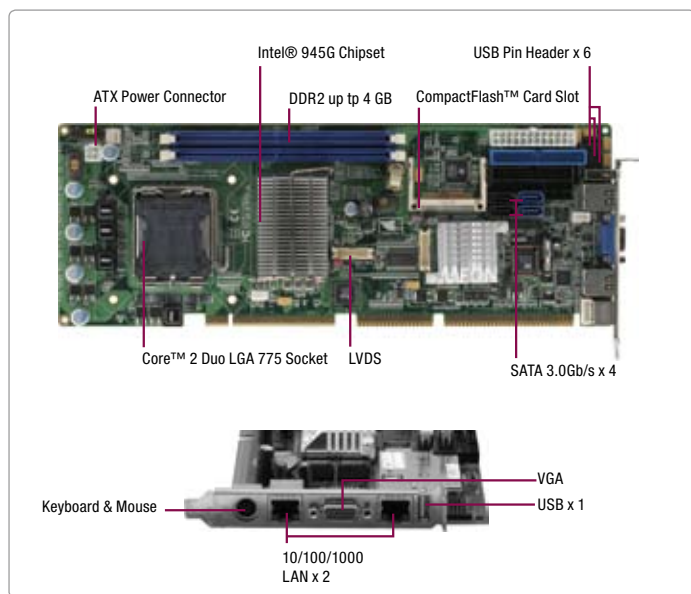


FSB-868G

Full-Size SBC With Intel® Core™ 2 Duo LGA775 Processor

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Full-Size SBCs (PICMG 1.0)



Features

- Intel® Core™ 2 Duo/ Pentium® 4/ Celeron® D LGA775 Processor
- Intel® 945G + Intel® ICH7 (ICH7R)
- DDR2 533/667 Memory Up To 4 GB
- 10/100Base-TX Ethernet x 2 (Gigabit Ethernet Optional)
- Integrated GMA950 2D/3D Graphics Accelerator, VGA Support, Dual-channel LVDS Output (Optional)
- AC97 Codec Audio Daughter Board (Optional)
- Ultra ATA100 x 1, SATA 3.0Gb/s x 4, CompactFlash™ Type 2 x 1
- USB2.0 x 7, COM x 2, Parallel x 1, IrDA x 1
- ATX 2.1
- PICMG 1.0

Specifications

System	
Form Factor	PICMG Full-Size SBC
Processor	Intel® Pentium® 4/ Celeron® D/ Core™ 2 Duo , LGA 775 Package, FSB 533/800/1066 MHz
System Memory	240-pin 1.8V DDR2 DIMM Socket x 2, up to 4 GB Support Dual-channel DDR2 memory (DDR2 533/667)
Chipset	Intel® 945G + ICH7 (ICH7R RAID 0,1 optional)
Ethernet	Marvell® 88E8036 controller: 10/100base-TX Marvell® 88E8053 controller: 10/100/1000Base-TX (optional) RJ-45 x 2
BIOS	Award Plug & Play FWH BIOS - 8 Mb ROM
Expansion Interface	PICMG 1.0
Watchdog Timer	1~255 steps, can be set with software on Super I/O
H/W Status Monitoring	System temp. Voltage, and Cooling fan status monitoring
RTC	Internal RTC
Battery	Lithium Battery
Power Requirement	ATX2.1
Power Consumption (Typical)	65W, with Intel® Core™ 2 Duo E6700 2.66 GHz/FSB 1066 MHz/ 4 MB L2 Cache
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Board Size	13.3"(L) x 4.8"(W) (339mm x 122mm)
Gross Weight	1.2 lb (0.5 kg)
MTBF (Hours)	65,000
Display	
VGA Controller	Integrated VGA on Intel® 945G, Core™ frequency up to 400 MHz
Memory	Shared memory up to 256 MB
Resolutions	Up to 2048 x 1536 @ 32bpp for CRT Up to 1600 x 1200 @ 24-bit for LCD
LCD Interface	18/24-bit LVDS dual-channel support
I/O	
Storage	ATA-100 x 1 (Supports ATAPI device) SATA 3.0Gb/s x 4 CompactFlash™ Type 2 x 1 Standard Floppy Connector x 1
Serial Port	COM Port x 2 (Internal Pin Header x 2) COM 1: RS-232 COM 2: RS-232/ 422/ 485
Parallel port	Parallel port supports SPP/ EPP/ ECP mode x 1
USB	USB2.0 x 7 (Internal 5x2-pin header x 3, up to 6 USB, TYPE-A Connector onboard x 1)
PS/2 Port	Keyboard x 1, Mouse x 1
Audio (Daughter Board)	Realtek ALC655 AC97 Codec, MIC-in/Line-in/Line-out/CD-in optional
IrDA	Supports One IrDA Header



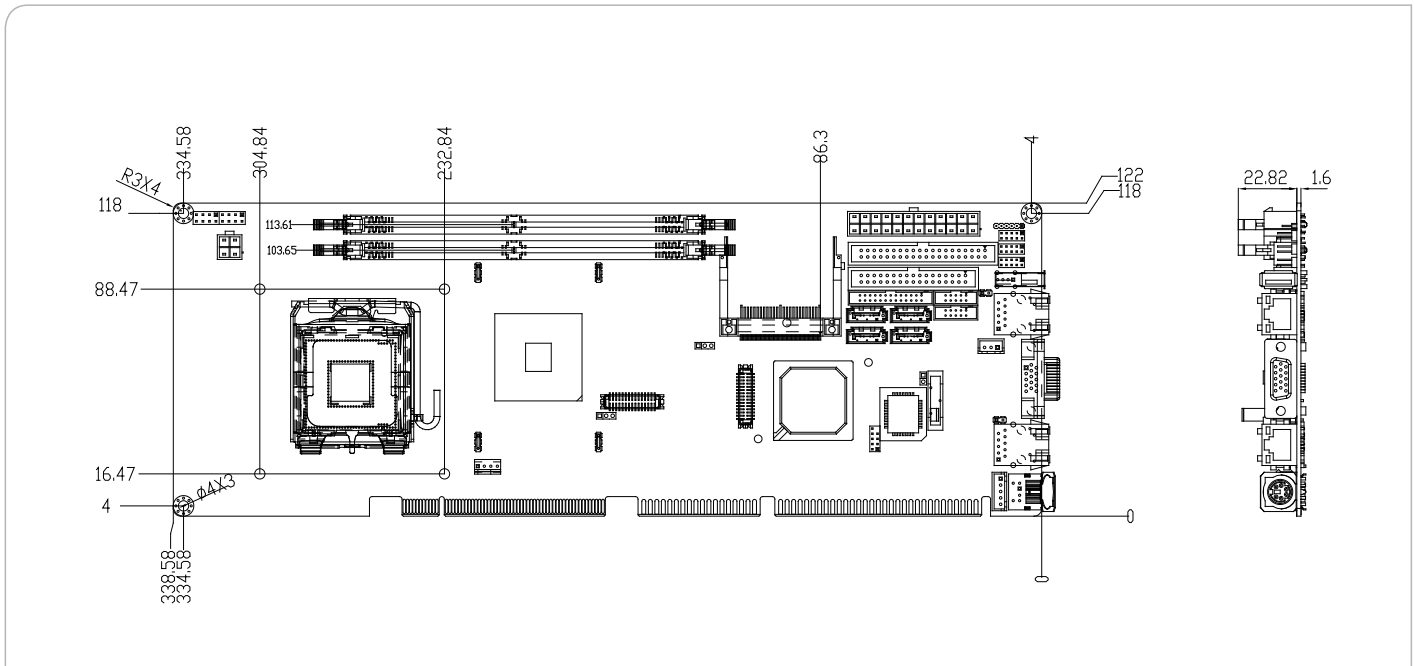
Packing List

- **1701340704**
Flat Cable, 34P, 70cm, Gray for Floppy Disk Drive
- **1701400453**
Cable, 40P 2.54mm IDC with —se with Fold, 40P 2.54mm IDC with —se with Fold, 45cm, Blue ATA-100, B016-009-2
- **1700060192**
Cable, 6P-6P-6P, 19cm, Ivory PS2/ Keyboard & Mouse
- **1701260307**
Flat Cable, 9P/DB9P Male & 25P DB25P Female, 10P 2mm & 26P 2mm/IDC — Fold, 30cm, with Bracket, A002-015
- **1701100305**
Flat Cable, 9P/DB9P Male, 10P/2.0mm Pitch/IDC — Fold, 30cm, with Bracket
- **1703030501**
Wire, 3P 2.5mm Housing, 3P 2.5mm Housing, 50cm
- **1709100201**
USB Cable, 20cm 2.0mm, with Bracket
- **1709070780**
4 SATA Cables, 7P Pitch 1.27mm, 78cm
- **1759200161**
CPU Cooler Fan, for LGA775 Pentium® 4 3.6G, 4P, 12V, Dual ball bearing, LGA-775-91502
- **Product CD**
- **FSB-868G**

FSB-868G

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.
TF-FSB-868G-B10-VE	Socket	DIMM	Fan	VGA	SATA2 x 4, IDE x 1, Floppy x 1, CF x 1	—	FE x 1	USB2.0 x 7	1	1	PICMG 1.0	ATX +12V	0°C ~ 60°C
TF-FSB-868G-B10-VG	Socket	DIMM	Fan	VGA	SATA2 x 4, IDE x 1, Floppy x 1, CF x 1	—	GbE x 1	USB2.0 x 7	1	1	PICMG 1.0	ATX +12V	0°C ~ 60°C
TF-FSB-868G-B10-E2	Socket	DIMM	Fan	VGA	SATA2 x 4, IDE x 1, Floppy x 1, CF x 1	—	FE x 2	USB2.0 x 7	1	1	PICMG 1.0	ATX +12V	0°C ~ 60°C
TF-FSB-868G-B10-G2	Socket	DIMM	Fan	VGA	SATA2 x 4, IDE x 1, Floppy x 1, CF x 1	—	GbE x 2	USB2.0 x 7	1	1	PICMG 1.0	ATX +12V	0°C ~ 60°C
TF-FSB-868G-B10-RF	Socket	DIMM	Fan	VGA	SATA2 x 4 (Raid), IDE x 1, Floppy x 1, CF x 1	—	GbE x 2	USB2.0 x 7	1	1	PICMG 1.0	ATX +12V	0°C ~ 60°C

Optional Accessories

- **TF-PER-U00A**
5.1 Channel Audio 4 USB Connectors
- **1703030501**
ATX Power from Backplane to CPU Card
- **1702030301**
ATX Power Simulation AT Power Switch Wire
- **1701400800**
P-ATA100 Cable 80cm
- **1709070780**
SATA Cable 78cm
- **1702043000**
ATX 12V Extension Cable
- **1701260307**
1 Serial Port + 1 Parallel Port with Bracket
- **1701100305**
1 Serial port with Bracket
- **1998666611**
P-ATA IDE Removable Frame-Black
- **1998666612**
P-ATA IDE Removable Frame-White
- **1998666613**
SATA IDE Removable Frame-Black
- **1998666614**
SATA IDE Removable Frame-White