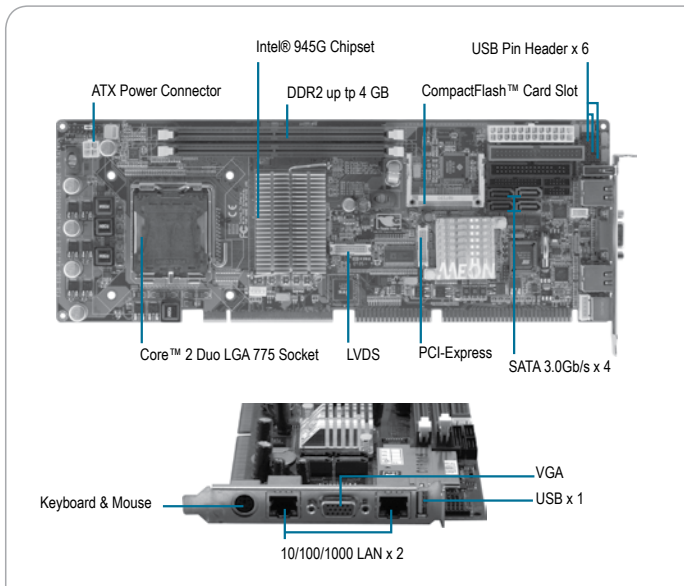


FSB-868G

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

05

Full-Size SBCs (PICMG 1.0)



Features

- Intel® Core™ 2 Duo/ Pentium® 4/ Celeron® D LGA775 CPU
- 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
- ISA, PCI, PCI-Express Expansions
- 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	ISA/ PCI/ PCI-Express Connector (30-pin box header)
Watchdog Timer	1~255 steps, can be set with software on Super I/O
RTC	Internal RTC
Battery	Lithium Battery
Power Requirement	ATX2.1
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
Power Consumption (Typical)	65W, with Intel® Core™ 2 Duo E6700 2.66 GHz/FSB 1066 MHz/ 4 MB L2 Cache
EMC	CE/ FCC Class A
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	
	Winbond W83627EHG
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
Universal Serial Bus	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 AL655 AC97 Codec, MIC-in/Line-in/Line-out/CD-in optional
IrDA	Supports One IrDA Header



Packing List

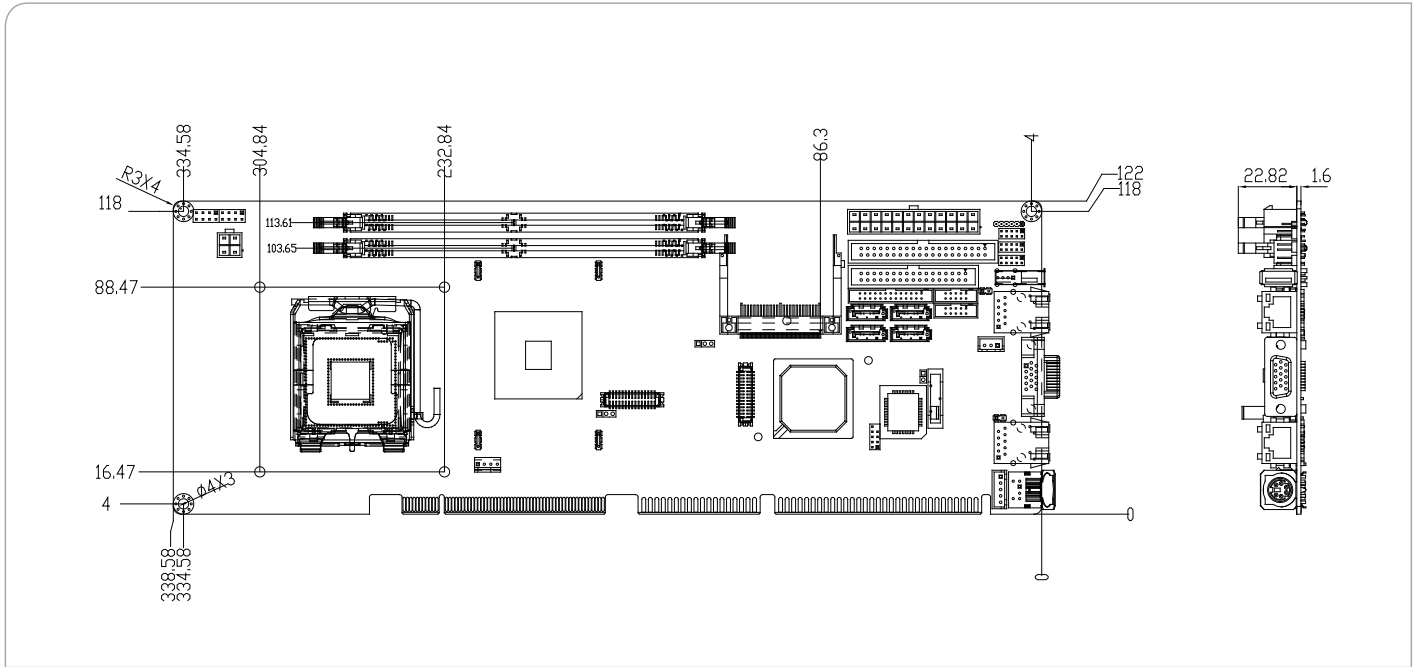
- **1701340704**
Flat Cable, 34P, 70cm, Gray for Floppy Disk Drive
- **1701400453**
Cable, 40P 2.54mm IDC with Nose with Fold, 40P 2.54mm IDC with Nose with Fold, 45cm, Blue ATA-100, B016-009-2
- **1700060192**
Cable, 6P-6P-6P, 19cm, Ivory PS2/ Keyboard & Mouse
- **1701260307**
Flat Cable, 9P/DB9P Male & 25P DB25P Female, 10P 2mm & 26P 2mm/IDC No Fold, 30cm, with Bracket, A002-015
- **1701100305**
Flat Cable, 9P/DB9P Male, 10P/2.0mm Pitch/IDC No 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
- **21304866G0**
Sponge, FSB-866G, 400 x 185 x 10 mm, Black
- **211866G001**
Inside Box, FSB-866G, 120 x 80 x 88 mm
- **Quick Installation Guide**
- **Product CD**
- **FSB-868G**

Ordering Information

- **TF-FSB-868G-B10-VE**
Full Size PICMG CPU Card, Socket 775 Pentium® 4, VGA, 10/100Base-TX Ethernet, 7 USB, CompactFlash™, Audio, 4 SATA 3.0Gb/s, Rev. B1.0
- **TF-FSB-868G-B10-VG**
Full Size PICMG CPU Card, Socket 775 Pentium® 4, VGA, Gigabit Ethernet, 7 USB, CompactFlash™, Audio, 4 SATA 3.0Gb/s, Rev. B1.0
- **TF-FSB-868G-B10-E2**
Full Size PICMG CPU Card, Socket 775 Pentium® 4, VGA, 2 10/100Base-TX Ethernet, 7 USB, CompactFlash™, Audio, 4 SATA 3.0Gb/s, Rev. B1.0
- **TF-FSB-868G-B10-G2**
Full Size PICMG CPU Card, Socket 775 Pentium® 4, VGA, 2 Gigabit Ethernet, 7 USB, CompactFlash™, Audio, 4 SATA 3.0Gb/s, Rev. B1.0
- **TF-FSB-868G-B10-RF**
Full Size CPU Card, LGA 775 Pentium® D, VGA, 2 Gigabit Ethernet, 7 USB, CompactFlash™, AC97, 4 SATA 3.0Gb/s, LVDS, Raid, Rev. B1.0

Dimension

Unit: mm



Passive Backplane Options

P/N	Description	Master Interface	Slots	Power Connector, ATX Extend Function
TF-BP-213RG-P4	Rackmount, PICMG, 13-slot R.PCI Backplane, 4 PCI/7 ISA, Single Segment, AT/ATX	PICMG	4/8/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2145G-P4	Rackmount, PICMG, 14-slot Backplane, 4 PCI/ 8 ISA, Single Segment, AT/ATX	PICMG	4/9/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2145G-P7	Rackmount, PICMG, 14-slot Backplane, 7 PCI/ 5 ISA, Single Segment, AT/ATX	PICMG	7/6/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2145G-P12	Rackmount, PICMG, 14-slot Backplane, 12 PCI/1 ISA Single Segment, AT/ATX	PICMG	12/2/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2085G-P4	Wallmount, PICMG, 8-slot Backplane, 4 PCI/ 2 ISA, Single Segment, AT/ATX	PICMG	4/3/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2085G-P7	Wallmount, PICMG, 8-slot Backplane, 7 PCI/ 0 ISA, Single Segment, AT/ATX	PICMG	7/0/1 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-206VG-P2	Rackmount, PICMG, 6-slot Backplane, 2 PCI/ 3 ISA, Single Segment, ATX	PICMG	2/3/1 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2065G-P4	Wallmount, PICMG, 6-slot Backplane, 4 PCI, 2 ISA, Single Segment, ATX	PICMG	4/2/2 (PCI/ ISA/ PICMG)	AT, ATX, 3-pin ATX extend

Optional Accessories

- **TF-PER-C101**
Dual PCI-E Gigabit Ethernet Card w/Broadcom BCM 5789/5751/5721
- **TF-PER-C102**
Dual PCI-E Gigabit Ethernet Card w/Marvell® 88B8036/53
- **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