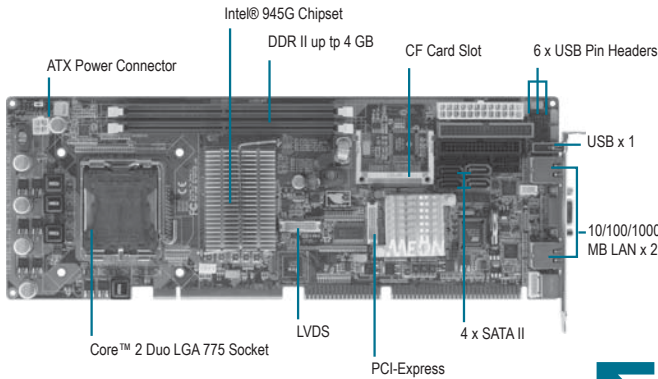


## Intel® Core™ 2 Duo LGA775 PICMG Full-size SBC

01

Full-size SBCs



### Features

- Intel® Pentium® 4/ Pentium® D LGA775 Core™ 2 Duo CPUs
- DDR II 667 Memory Supports up to 4GB
- Integrated GMA950 2D/3D Graphics Accelerator, VGA Support
- 10/100/1000 Base-TX Ethernet (GbE Optional) x 2
- USB 2.0 x 7/ RS-232/422/485 x 2/ Parallel x 1/ IrDA Port x 1
- Ultra ATA100 & SATA II x 4 & CompactFlash™ Type-II Storage
- Dual Channel LVDS Output (Optional)
- Watchdog Function 1~255 Sec.



### Specifications

System	
Form Factor	PICMG Full-size SBC
Processor	Intel® Pentium® 4/ Pentium® D GHz/ Celeron® D/ Core™ 2 Duo , LGA 775 Package, FSB 533/800/1066 MHz
System Memory	240-pin 1.8V DDR2 DIMM Socket x 2, total up to 4GB Support Dual Channel DDR memory (DDRII 533/667 )
Chipset	Intel® 945G + Intel® 82801GB (ICH7/ ICH7R RAID optional)
Ethernet	PCI-Express 10/100Mb or 10/100/1000Mb LAN x 2 with RJ-45 connectors Marvell 88E8036/88E8053 controller
BIOS	Award Plug & Play FWH BIOS-4Mb ROM
IDE Interface	ATA-100 (Supports CD-ROM ATAPI device) x 1 SATA II (Support four SATA devices) x 4
SSD	CFD type II Connector x 1
Expansion Interface	ISA/ PCI/ PCI-Express Connector (DF13-30P)
Watchdog Timer	1~255 Sec. can be set with software on Super I/O
RTC	Internal RTC
Battery	Lithium Battery
Power Requirement	ATX, ATX12V
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Board Size	13.3"(L) x 4.8"(W) (338mm x 122mm )
Gross Weight	1.2 lb (0.5 kg)
MTBF (Hours)	65,000
Power Consumption (Typical)	176W, with Pentium® 4 3.8GHz/ FSB 800MHz/ 2MB L2 Cache
EMC	CE/ FCC Class A
Display	
Supports CRT & LCD simultaneous display	
VGA Controller	Integrated VGA on Intel® 945G, Core frequency up to 400MHz
Memory	Shared memory up to 256MB
Resolutions	Up to 2048 x 1536 @ 32bpp for CRT Up to 1600 x 1200@ 24-bit for LCD
LCD Interface	18/24-bit LVDS, 36/48-bit support
I/O	
IO Chip/ W83627EHG	
Serial Port	COM Port x 2: (Internal Pin Header x 1, External D-sub x 1) COM 1: RS-232 COM 2: RS-232/ 422/ 485
Parallel port	Parallel port supports SPP/ EPP/ ECP mode x 1
Universal Serial Bus	USB 2.0 Port x 7 Internal 5x2-pin headers x 3, support up to USB port x 6 TYPE-A Connector onboard x 1
Floppy Disk Interface	Standard Floppy Disk Drive x 1
Keyboard and Mouse	Mini-DIN PS/2 keyboard and Mouse connector x 1 Internal keyboard pin header x 1
IR Interface	Supports One IrDA Header
Audio (Daughter Board)	Realtek ALC655 AC97 Codec, MIC-in/Line-in/Line-out/CD-in optional

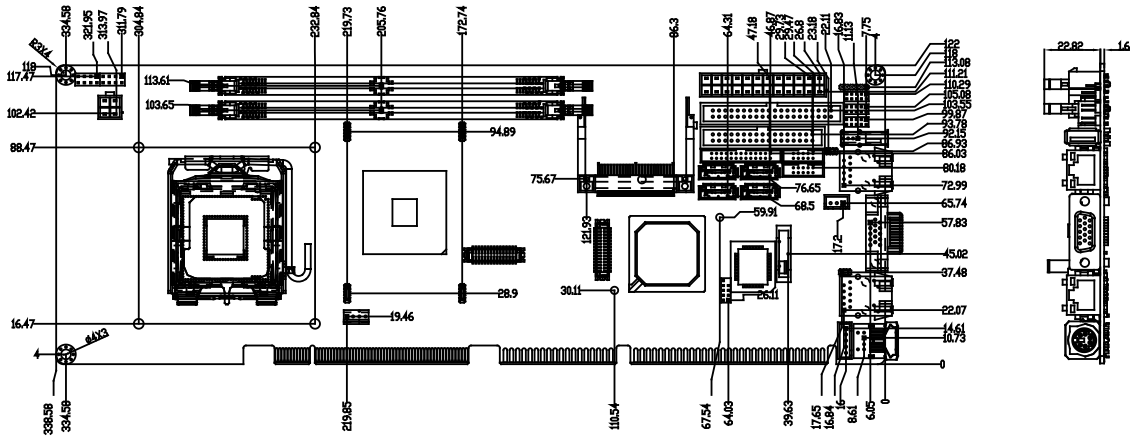
### Packing List

- **1701340704**  
Flat Cable, 34P, 70cm, GRAY for Floppy Disk Drive
- **1701400453**  
Cable, 40P 2.54mm IDC w/Nose w/Fold, 40P 2.54mm IDC w/ Nose w/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, W/BKT, A002-015
- **1701100305**  
Flat Cable, 9P/DB9P MALE, 10P/2.0mm Pitch/ IDC NO FOLD, 30cm, W/BRACKET
- **1703030501**  
Wire, 3P 2.5mm Housing, 3P 2.5mm Housing, 50cm
- **1709100201**  
USB Cable, 20cm 2.0mm, W/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, 400x185x10 mm, Black
- **211866G001**  
Inside Box, FSB-866G, 120x80x88 mm
- **Quick Installation Guide**
- **Utility CD**
- **FSB-868G**

### Ordering Information

- **TF-FSB-868G-B10-VE**  
Full Size PICMG CPU Card, Socket 775 Pentium® 4, VGA, 10/100M LAN, 7 USB, CF, Audio, 4 SATA, Rev. B1.0
- **TF-FSB-868G-B10-VG**  
Full Size PICMG CPU Card, Socket 775 Pentium® 4, VGA, 10/100/1000M LAN, 7 USB, CF, Audio, 4 SATA, Rev. B1.0
- **TF-FSB-868G-B10-E2**  
Full Size PICMG CPU Card, Socket 775 Pentium® 4, VGA, 2 10/100M LAN, 7 USB, CF, Audio, 4 SATA, Rev. B1.0
- **TF-FSB-868G-B10-G2**  
Full Size PICMG CPU Card, Socket 775 Pentium® 4, VGA, 2 10/100/1000M LAN, 7 USB, CF, Audio, 4 SATA, Rev. B1.0
- **TF-FSB-868G-B10-RF**  
Full Size CPU Card, LGA 775 Pentium® D, VGA, 2 10/100/1000M LAN, 7 USB, CF, AC97, 4 SATA II, 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-A11	Rackmount, PICMG, 13-slot R.PCI Backplane, 4 PCI/7 ISA, Single Segment, AT/ATX, Rev. A1.1	PICMG	4/8/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2145G-P4-A11	Rackmount, PICMG, 14-slot Backplane, 4 PCI/8 ISA, Single Segment, AT/ATX, Rev. A1.1	PICMG	4/9/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2145G-P7-A11	Rackmount, PICMG, 14-slot Backplane, 7 PCI/5 ISA, Single Segment, AT/ATX, Rev. A1.2	PICMG	7/6/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2145G-P12-A11	Rackmount, PICMG, 14-slot Backplane, 12 PCI/1 ISA Single Segment, AT/ATX, Rev. A1.1	PICMG	12/2/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2085G-P4-A11	Wallmount, PICMG, 8-slot Backplane, 4 PCI/2 ISA, Single Segment, AT/ATX, Rev. A1.1	PICMG	4/3/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2085G-P7-A11	Wallmount, PICMG, 8-slot Backplane, 7 PCI/0 ISA, Single Segment, AT/ATX, Rev. A1.1	PICMG	7/0/1 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-206VG-P4-A11	Rackmount, PICMG, 6-slot Backplane, 4 PCI/0 ISA, Single Segment, AT/ATX, Rev. A1.1	PICMG	4/0/1 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-206VG-P2-A10	Rackmount, PICMG, 6-slot Backplane, 2 PCI/3 ISA, Single Segment, ATX, Rev. A1.0	PICMG	2/3/1 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2065G-P4-A11	Wallmount, PICMG, 6-slot Backplane, 4 PCI, 2 ISA, Single Segment, ATX, Rev. A1.1	PICMG	4/2/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2065G-P3-A11	Wallmount, PICMG, 6-slot Backplane, 3 PCI, 3 ISA, Single Segment, ATX, Rev. A1.0	PICMG	3/3/2 (PCI/ISA/PICMG)	ATX, 3-pin ATX extend

## Optional Accessories

- **TF-TF-PER-C101**  
Dual PCI-E Giga LANs Card w/Broadcom BCM 5789/5751/5721
- **TF-TF-PER-C102**  
Dual PCI-E 10/100/1000 LANs Card w/Marvell 88B8036/53
- **TF-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
- **1759200162**  
CPU Cooler Fan for LGA775 Pentium® 4, 3.8GHz, 3P 12V, Dual Ball Bearing, 2 U.