

■ Full-Size SBC With Intel® Core™ i7/ i5/ i3 Q57 LGA1156 PICMG 1.3

Launched in Q2

Specifications

System	
Form Factor	PICMG 1.3 Full-Size SBC
Processor	Intel® 32nm Core™ i5/i3 LGA1156 CPUs w/ Graphic function Intel® 45nm Core™ i7/i5 LGA1156 CPUs w/o Graphic function
System Memory	240-Pin 1.5V DDRIII DIMM Socket x 2, Up to 8 GB, Dual-channel DDRIII memory (DDRIII 1066/1333)
Chipset	Intel® Q57
Ethernet	Intel® PCI-Express™ 10/100/1000Base-TX x 2, RJ-45 x 2 LAN1: Intel® 82577LM, LAN2: 82574L Controller
BIOS	AMI Plug & Play SPI BIOS-32 Mb ROM
Expansion Interface	PCI x 4, PCI-Express [x4] x 1, PCI-Express [x16] x 1
Watchdog Timer	1~255 step, can be set with software on Super I/O
RTC	Internal RTC
Battery	Lithium Battery
Power Requirement	ATX 2.1
Gross Weight	—
Operating Temperature	32°F ~140°F (0°C~60°C)
MTBF (Hours)	—
Power Consumption	73W, with Intel® 32nm Core™ i5/i3 95W, with Intel® 45nm Core™ i7/i5
Display	
VGA Controller	Intel® Clarkdale + Q57, Core i5-660, Core i3-540 only
Memory	Shared memory up to 256 MB
Resolution	Analog up to 2048 x 1536 @ 75 Hz Flat panels up to 2048 x 1536 @ 60 Hz
LCD Interface	—
I/O	
ITE IT8718F	
Storage	IDE slot x1 (SATA to IDE), SATA II x 4, CompactFlash™ Type II x 1, Floppy port x 1
Serial Port	COM port x 2: COM 1 : RS-232 COM 2 : RS-232/422/485 w/ Box Header
Parallel Port	Support SPP/EPP/ECP mode
Universal Serial Bus	USB2.0 Port x 7 Internal 5 x 2-pin header x 3, up to USB x 6 Onboard TYPE-A Connector x 1 USB2.0 Port to Backplane x 5
PS/2 Port	Keyboard x 1, Mouse x 1
Audio (Daughter Board)	High Definition Audio Codec, MIC-in/ Line-in/ Line-out/ CD-in
IrDA	IrDA header x 1

Features

- Intel® 32/45nm Core™ i7/i5/i3 LGA1156 CPUs Integrated Graphic & Memory Controller
- DDRIII 1066/1333 Memory Up To 8 GB
- PCI-Express [x1] 10/100/1000Base-TX Ethernet x 2
- Integrated Intel® Enhanced Graphics Core, VGA Support
- HD Codec Audio Daughter Board (Optional)
- Ultra ATA100 x 1, SATA II x 4, CompactFlash™ Type II x 1
- USB2.0 x 12, COM x 2, Parallel x1, IrDA x 1
- PCI x 4, PCI-Express [x4] x 1, PCI-Express [x16] x 1 Expansions
- ATX 2.1



Packing List

- **1709070800**
SATA Cable, 7P Pitch 1.27mm, 80cm, W/Lock
- **1701340704**
Flat Cable, 34P, 70cm, GRAY for FDD
- **1701400453**
Cable, 40P 2.54mm IDC W/Nose W/Fold, 40P 2.54mm IDC W/Nose W/Fold, 45cm, Blue ATA-100
- **1700060192**
Cable, 6P-6P-6P, 19cm, IVORY PS2/KB&Mouse
- **1701260307**
Flat Cable, 9P/DB9P MALE&25P DB25P FEMALE, 10P 2mm & 26P 2mm/IDC NO
- **1701100305**
Flat Cable, 9P/DB9P MALE, 10P/2.0mm Pitch/IDC No Fold, 30cm, W/BACKET
- **1709100201**
USB Cable, 20cm 2.0mm, W/Bracket
- **Quick Installation Guide**
- **Utility CD**
- **FSB-Q57H**

Ordering Information

- TBD

Dimension

Unit: mm

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Passive Backplane Options

P/N	Description	Master Interface	Slots	Power Connector, ATX Extend Function
TF-BP-206SH-P3	Wallmount, PICMG 1.3, 6-Slot, Backplane, 3 PCI, 2 PCI-E, Single Segment, ATX	PICMG 1.3	3/2/1 (PCI/PCI-E/PICMG 1.3)	ATX
TF-BP-214SH-P3E2I6	Rackmount, PICMG 1.3, 14-Slot, Backplane, 3 PCI, 2 PCI-E, 6 ISA, Single Segment, ATX	PICMG 1.3	3/2/6/2 (PCI/PCI-E/ISA/PICMG 1.3)	ATX
TF-BP-206VH-E4	Rackmount, PICMG 1.3, 6-slot Backplane, 4 PCI-E, Single Segment, ATX	PICMG 1.3	4/1 (PCI-E/ PICMG 1.3)	ATX
TF-BP-206VH-P4	Rackmount, PICMG 1.3, 6-slot Backplane, 4 PCI, Single Segment, ATX	PICMG 1.3	4/1 (PCI/ PICMG 1.3)	ATX
TF-BP-216QH-P4E8	Rackmount, PICMG 1.3, 16-slot Backplane, 4 PCI, 4 PCI-E, Four Segments, ATX	PICMG 1.3	4/8/4 (PCI/PCI-E/ PICMG 1.3)	ATX

Optional Accessories

- **TF-PER-U01H**
HD Codec Audio Daughter Board
- **1703030501**
Supports 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