

FSB-Q77H

Full-Size SBC with Intel® Core™ i7/i5/i3 Processor

Launching in Q2

Specifications

System	
Form Factor	PICMG 1.3 Full-Size SBC
Processor	Intel® Core™ i7/i5/i3 LGA 1155 processor
System Memory	240-pin Dual-Channel DDR3 1066/1333 DIMM socket x 2, up to 16GB
Chipset	Intel® Q77
Ethernet	LAN1: Intel 82579LM PHY (Supports Intel® AMT 7.0) LAN2: Intel 82583V/82574L 10/100/1000Base-TX, RJ-45 x 2
BIOS	AMI Plug & Play SPI BIOS – 32 MB ROM
Expansion Interface	PCI-Express [x16] x 1, PCI-Express [x4] x 1 Or PCI-Express [x1] x 4, PCI x 4
Watchdog Timer	1~255 steps by software programming
RTC	Internal RTC
Battery	Lithium battery
Power Requirement	ATX 2.1
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
Board Size	13.3" x 5" (339mm x 126mm)
Gross Weight	1.2lb (0.5kg)
MTBF	—
Power Consumption (Typical)	—
Display	
VGA Controller	Intel® Q77 Integrated Intel® HD Graphics
Memory	—
Resolution	Up to 2048 x 1536 @ 75Hz for CRT
Output Interface	VGA x 1 on bracket, DVI-D (Optional)
I/O	
Storage	SATA 6.0Gb/s x 2, SATA 3.0Gb/s x 4 (Backplane x 2) support RAID 0/1/5/10, CFast™ x 1
Serial Port	COM x 2 COM 1: RS-232 COM 2: RS-232/422/485, with Box header
Parallel Port	Supports SPP/EPP/ECP mode
Universal Serial Bus	USB3.0 x 4 (onboard Dual TYPE-A Connector x 1, Internal 10 x 2 pin header x 1) USB2.0 x 4, (Internal 5 x 2-pin header x 2)
PS/2 Port	Keyboard/Mouse x 1 (4x2 pin header)
Audio	Realtek ALC655 AC97 Codec (Optional) Mic-in/Line-in/Line-out/CD-in
Digital I/O	8-bit programmable (4-in / 4-out)
IrDA	Supports IrDA Header x 1

Features

- Intel® Core™ i7/i5/i3 LGA 1155 Processor
- Intel® Q77
- Dual Channel DDR3 Memory DIMM Socket x 2 (Up to 16GB)
- Gigabit Ethernet x 2 (LAN1 Support Intel® AMT 7.0)
- Intel® Q77 Integrated Intel® HD Graphics
- AC97 Codec Audio Daughter Board (Optional)
- SATA 6.0Gb/s x 2, SATA 3.0Gb/s x 4 (Backplane x 2), Support RAID 0,1,5,10, CFast™ x 1
- COM x 2, USB3.0 x 4, USB2.0 x 4, Parallel x 1
- PCI-Express[x16] x 1, PCI-Express[x4] x 1 Or PCI-Express [x1] x 4, PCI x 4
- ATX 2.1
- PICMG 1.3



Packing List

- TBD

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Dimension

Unit: mm

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Passive Backplane Options

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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-Q77H-A10-VG	Socket	DIMM	Fan	VGA + DVI (Optional)	SATA3 x 2, SATA2 x 4, CFast™ x 1	—	GbE x 1	USB3.0 x 4, USB2.0 x 4	1	1	PCI-E[x16] x 1, PCI-E[x4] x 1, PCI x 4	ATX +12V	0°C ~ 60°C
TF-FSB-Q77H-A10-G2	Socket	DIMM	Fan	VGA + DVI (Optional)	SATA3 x 2, SATA2 x 4, CFast™ x 1	—	GbE x 2	USB3.0 x 4, USB2.0 x 4	1	1	PCI-E[x16] x 1, PCI-E[x4] x 1, PCI x 4	ATX +12V	0°C ~ 60°C

Optional Accessories

- TBD