

COM-QM77 Rev.B

COM Express Type 6 CPU Module with Onboard Intel® Core™ i7/i5/i3/Celeron® Processor (3rd Generation)

Launching in Q2

Specifications

System	
Form Factor	COM Express Basic module, Pin-out Type 6, COM. 0 Rev. 2.0
Processor	Onboard 3rd Generation Intel® Core™ i7/i5/i3/Celeron® Processor (2nd Generation, FCBGA1023)
System Memory	204-pin DDR3 SODIMM x 2, Max. 16GB (DDR3 1333/1600), support dual-channel function
Chipset	2nd Generation Intel® QM77
I/O Chipset	2nd Generation Intel® QM77
Ethernet	Intel® 82579LM, 10/100/1000Base-TX
TPM	v1.2 (optional)
BIOS	AMI BIOS SPI type, 16MB ROM
EEPROM	Atmel® AT24C02, save BIOS and configuration data (Optional)
Wake On Lan	Yes
Watchdog Timer	ITE8518E-L, 255 levels
H/W status Monitoring	Supports CPU Temperature Monitoring
Expansion interface	PCI-Express [x16] x 1 PCI-Express [x1] x 7 LPC bus x 1 SMBus x 1 UART x 2 (TX/RX only)
Power Requirement	+12V only 2-pin wafer for RTC battery
Power Consumption	—
Board Size	4.92" (L) x 3.74" (W) (125mm x 95mm)
Gross Weight	0.66lb (0.3kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	—
Display	
Supports CRT/SDVO or HDMI /DP, CRT or HDMI/ DP/ DVI simultaneous/ three view displays	
Chipset	Intel® Core™ i7/i5/i3/Celeron® processor integrated DirectX 11, OpenGL *3.1, OpenCL* 1.1 Integrated hardware MPEG2 decoder
Memory	Shared system memory up to 512MB/ DVM T 5.0
Resolution	Up to 2560 x 2048 for CRT (two display), 2048 x 1536 for three displays Up to 1920 x 1200 (UXGA) for LCD/HDMI Up to 2560 x 1600 for DP Up to 2548 x 1536 for DVI
LCD Interface	Up to 24-bit dual-channel LVDS
SDVO/DVO/Side Port	Supports SDVO x1
HDMI	Supports HDMI x3
DVI	Supports DVI x 3
DisplayPort	Supports DisplayPort™ x 3

Features

- Onboard 3rd Generation Intel® Core™ i7/ i5/ i3/ Celeron® Processor (FCBGA1023)
- 2nd Generation Intel® QM77 PCH
- Dual-channel SODIMM DDR3 1333/1600 Memory, Max. 16 GB
- Gigabit Ethernet (iAMT 8.0 Support)
- CRT, Up to 24-bit Dual-channel LVDS LCD, DisplayPort™, HDMI, DVI, SDVO
- SATA 6.0Gb/s x 2 + SATA 3.0Gb/s x 2
- USB3.0 x 4, USB2.0 x 8
- PCI-Express [x16] x 1, PCI-Express [x1] x 7
- COM Express Basic Module, Pin-out Type 6, COM.0 Rev. 2.0



I/O	
Storage	SATA 3.0Gb/s x 2 SATA 6.0Gb/s x 2
Serial Port	UART x 2 (TX/RX only)
Parallel Port	—
USB	USB2.0 x 8 USB 3.0 x 4
PS/2 Port	—
IrDA	—
Audio	High definition audio
GPIO	Up to 4 in and 4 out

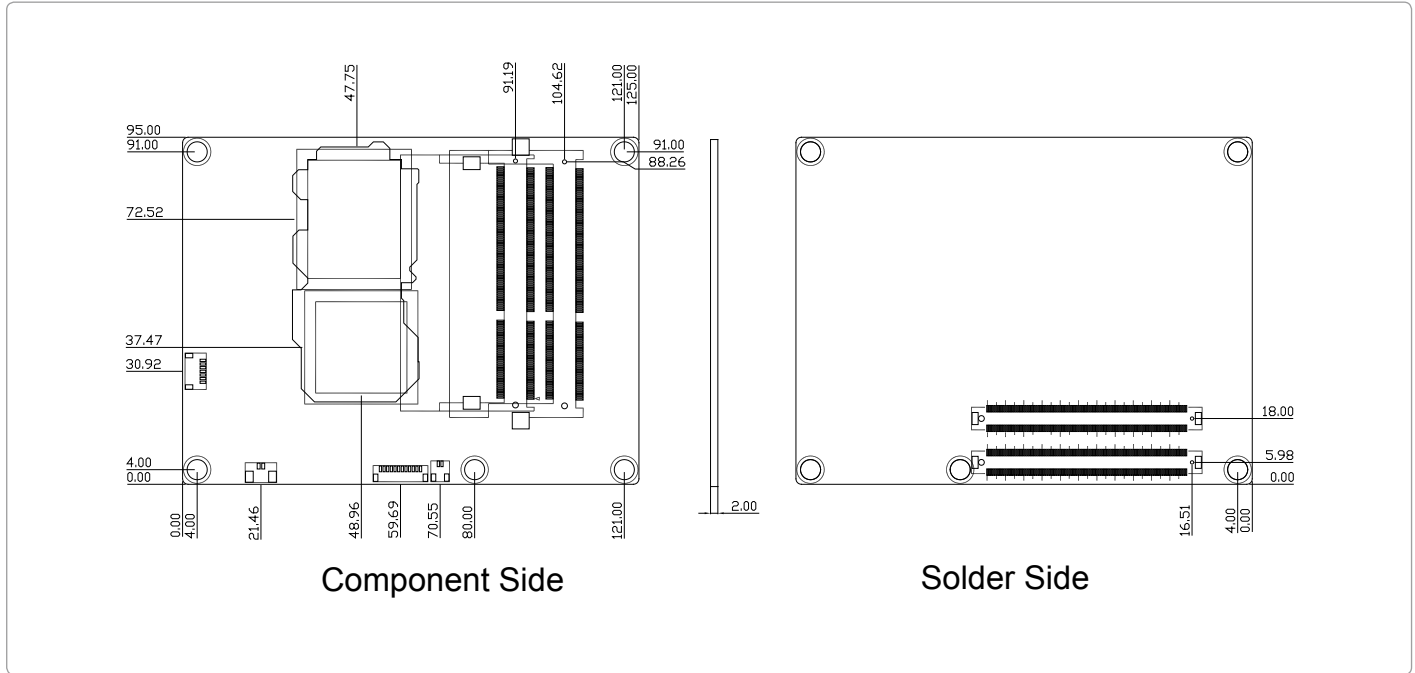
Packing List

- M2.5 Screw x 5
- Product CD
- COM-QM77 Rev.B

COM-QM77 Rev.B

Dimension

Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	Display	LVDS	Storage	LAN	USB	URAT	Expansion Slot	Power	Temp
TF-COM-QM77-B10	6 (COM.0 Rev.2.0)	3rd Generation Intel® Core™ i7-3559LE/2.5G(FCBGA1023)	DDR3 SODIMM x 2 Max:16GB	CRT, LVDS, SDVO, HDMI, DP, DVI	24-bit dual channel	SATA3 x 2 SATA2 x 2	GbE x 1	USB3.0 x 4 USB2.0 x 8	2 (TX/RX)	PCI-E[16] x 1 PCI-E[1] x 7	12V	0°C ~ 60°C

Optional Accessories

- TF-ECB-917T-A10**
 COM Express Type 6 Carrier Board, Mini-ITX, Dual Gigabit Ethernet, 2.1CH Audio, 4 COM, USB3.0, PCI-Express, AT/ATX, Rev. A1.0
- TF-PER-A122**
 Heat Spreader, For COM-QM77, Onboard CPU
- TF-PER-A115**
 CPU Cooler, 45W, for COM Express Basic Size