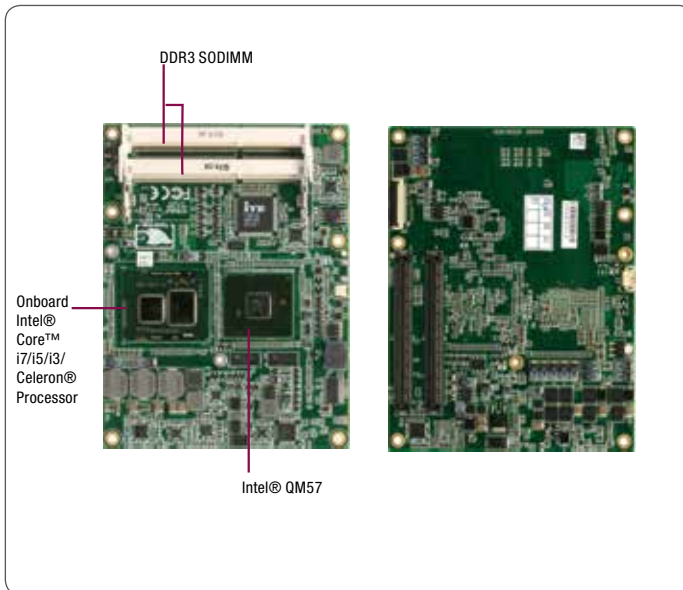


COM-QM57

COM Express Type 2 CPU Module with Onboard Intel® Core™ i7/ i5/ Celeron® Processor



Features

- Onboard Intel® Core™ i7/ i5/ Celeron® Processor
- Intel® QM57
- Dual-Channel DDR3 800/1066 MHz SODIMM x 2, Up to 8 GB
- Gigabit Ethernet
- CRT, Up to 24-bit Dual-Channel LVDS LCD, DisplayPort™, HDMI, DVI, SDVO
- High Definition Audio Interface
- PATA x 1, SATA 3.0 Gb/s x 4
- USB2.0 x 8
- PCI x 4, PCI-Express [x16] x 1, PCI-Express [x1] x 6 (5)
- COM Express Basic Module, Pin-out Type 2, COM.0 Rev. 2.0

Specifications

System	
Form Factor	COM Express Basic module, Pin-out Type 2, COM.0 Rev. 2.0
Processor	Onboard Intel® Core™ i7/i5/Celeron® processor
System Memory	204-pin DDR3 800/1066 MHz SODIMM x 2, up to 8 GB, support Dual-Channel function
Chipset	Intel® QM57
I/O Chipset	Intel® QM57
Ethernet	Intel® 82577LM, 10/100/1000Base-TX
TPM	v1.2 (optional)
BIOS	AMI BIOS
EEPROM	Atmel® AT24C02, save BIOS and Configuration data (Optional)
Wake on LAN	Yes
Watchdog Timer	ITE8513E-L
H/W Status Monitoring	Supports CPU temperature monitoring
Expansion Interface	PCI-Express [x16] x 1 (Shared with 2 DisplayPorts/ 2 HDMI/ 2 DVIs) => Can be configured as PCI-Express [x8] x 2 PCI-Express [x1] x 6 via QM57 32-bit PCI x 4 LPC bus x 1 SMBUS x 1
Power Requirement	+12V
Power Consumption (Typical)	Intel® Core™ i5-520E 2.4 GHz, DDR3 4 GB 3.11A@+12V, 0.24A@+5V (w/ ECB-916M)
Board Size	4.92"(L) x 3.74"(W) (125mm x 95mm)
Gross Weight	0.66 lb (0.3 kg)
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)	80,000
Display	
	Supports CRT/LCD, CRT/DVI, LCD/DVI simultaneous/ dual view displays
Chipset	Intel® Core™ i7/ i5/ Celeron® processor integrated Integrates hardware MPEG2 decoder supports WMV9 (VC-1) and H.264 (AVC)
Memory	Shared system memory up to 512 MB/ DVMT 5.0
Resolution	Up to 2048 x 1536 (QXGA) for CRT Up to 1920 x 1200 (UXGA) for LCD
LCD Interface	Up to 24-bit Dual-Channel LVDS
SDVO/ DVO/ Side Port	Supports SDVO x 1 (Shared with PCI-Express [x16])
HDMI	Supports HDMI x 2 (Shared with PCI-Express [x16]) optional
DVI	Supports DVI x 2 (Shared with PCI-Express [x16]) optional
DisplayPort	Supports DisplayPort™ x 2 (Shared with PCI-Express [x16]) optional



I/O	
Storage	PATA x 1 (One device) SATA 3.0 Gb/s x 4 via QM57
USB	USB2.0 x 8
Audio	High definition audio
GPIO	Up to 4 in and 4 out

Packing List

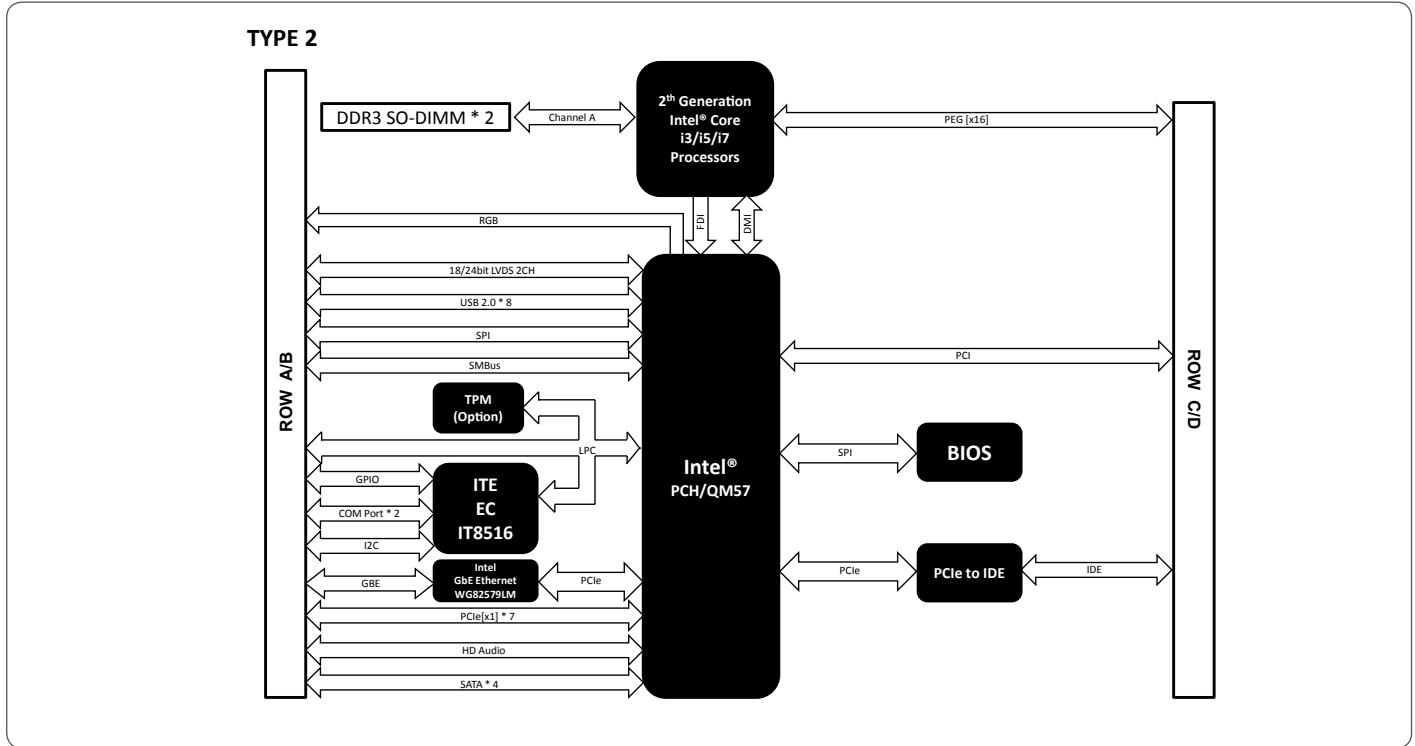
- M2.5 Screw x 5
- Product DVD
- COM-QM57

Optional Accessories

- **TF-ECB-916M-B11-01**
COM Express Carrier Board, microATX, Dual Gigabit Ethernet, 2 COM (Winbond), USB, PCI-Express, AT/ATX, Rev. B1.1
- **TF-PER-A098**
CPU Cooler, For COM-QM57, Onboard CPU, 12V Fan
- **TF-PER-A100**
Heat Spreader Kit, For COM-QM57, Onboard CPU

COM-QM57

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

Part Number	COM Express Type	CPU	Memory	Display	LVDS	Storage	LAN	USB	UART	Expansion Slot	Power	Temp
TF-COM-QM57-A11	2 (COM.0 Rev.2.0)	Intel [®] Celeron [®] P4505/1.86 GHz, 35W	DDR3 SODIMM x 2 up to 8 GB	CRT, LVDS, SDVO, HDMI, DP, DVI	24b, 2CH	SATA2 x 4 PATA x 1	GbE x 1	USB2.0 x 8	—	PCI-E [x16] x 1 PCI-E [x1] x 6 32-bit PCI x 4	12V	0°C ~ 60°C
TF-COM-QM57-A11-01	2 (COM.0 Rev.2.0)	Intel [®] Core [™] i7-620LE/2.0 GHz, 35W	DDR3 SODIMM x 2 up to 8 GB	CRT, LVDS, SDVO, HDMI, DP, DVI	24b, 2CH	SATA2 x 4 PATA x 1	GbE x 1	USB2.0 x 8	—	PCI-E [x16] x 1 PCI-E [x1] x 6 32-bit PCI x 4	12V	0°C ~ 60°C
TF-COM-QM57-A11-02	2 (COM.0 Rev.2.0)	Intel [®] Core [™] i5-520E/2.4 GHz, 35W	DDR3 SODIMM x 2 up to 8 GB	CRT, LVDS, SDVO, HDMI, DP, DVI	24b, 2CH	SATA2 x 4 PATA x 1	GbE x 1	USB2.0 x 8	—	PCI-E [x16] x 1 PCI-E [x1] x 6 32-bit PCI x 4	12V	0°C ~ 60°C