COM-880E

Wide-Range Temperature Intel® 3rd Gen. Core™ COM Express Basic Type 6 CPU Module

Features

- Soldered Onboard 3rd Gen. Intel® Core™ i7-3517UE Processor
- Integrated Gigabit Ethernet
- Dual Channels 24-bit LVDS, Analog RGB, and 3 x DDI Ports
- Support 3 Independent Displays
- RAID 0, 1, 5, 10 Supported
- **Extended Operating Temp.: -40 ~ 85°C**

System

CPU	Intel® Core™ i7-3517UE 1.7GHz processor
Memory	2 x DDR3 SO-DIMM sockets, supporting SDRAM up to 16GB
Chipset	Intel® PCH QM77
BIOS	AMI UEFI BIOS
Watchdog Timer	1~255 levels reset

I/O

USB Port	12 x USB ports: - 8 x USB 2.0 ports - 4 x USB 3.0 ports
Digital I/O	8-bit programmable Digital Input/Output
Expansion Bus	1 x PCIe x16 Gen3 lanes
	7 x PCIe x1 Gen2 lanes
	SPI and LPC (Low Pin Count) interfaces
Storage	4 x Serial ATA ports: - 2 ports with 600MB/s HDD transfer rate - 2 ports with 300MB/s HDD transfer rate
	SATA RAID 0, 1, 5, 10 supported
Ethernet Chipset	1 x Intel® 82579LM PCIe GbE PHY
Audio	HD Audio Link

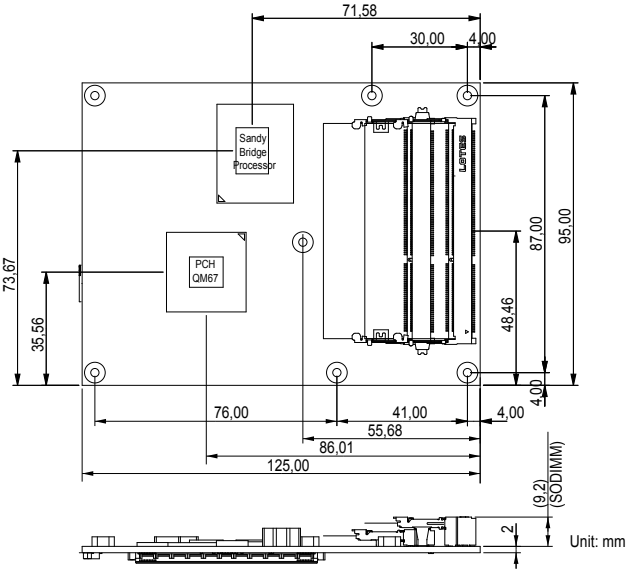
Display

Graphics Chipset	Integrated Intel® HD Graphics 4000
Graphics Interface	Analog RGB supports resolution up to 2560 x 1600
	LCD: Dual Channels 24-bit LVDS, resolution up to 1920 x 1200 @60Hz
	3 DDI ports

Mechanical & Environmental

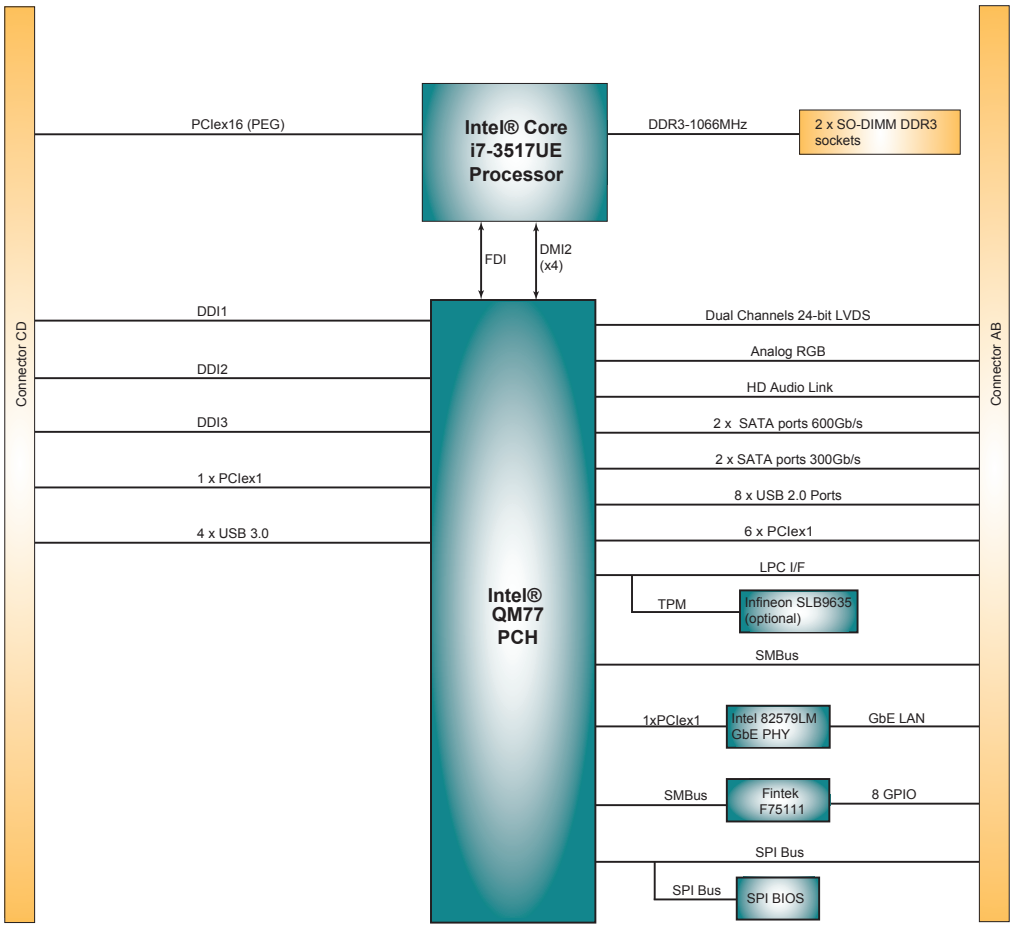
Power Requirement	+12V, 5VSB
Power Consumption	2.11A@12V (Typical)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
Dimension (L x W)	125 x 95 mm (4.9" x 3.7")

Dimensions



All specifications are subject to change without notice.

Block Diagram



Ordering Information

COM-880E-3517UE	Intel® Core™ i7-3517UE/ QM77 WT COM Express CPU module

Optional Accessories

HS-65M2-F2	Heat spreader (95x95x11mm)	
HS-0000-W4	Universal evaluation heatsink kit w/ thermal pad (dimension: 125x95x22mm, only used on a flat type heatspreader)	
PBE-1702	COM Express type 6 evaluation carrier board (ATX form factor)	See page 64
CBK-04-1702-00	Cable Kit • 1 x SATA cable • 2 x COM port cables • 1 x USB cable	