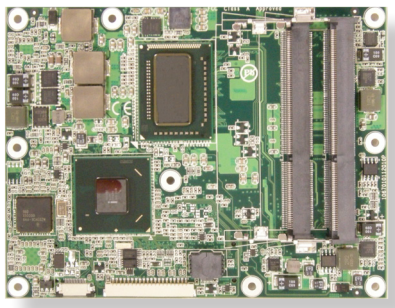
COM-873E

Wide-Range Temperature 2nd Generation Intel® Core™ i7/ Celeron® Processor COM Express® Basic Type 2 CPU Module



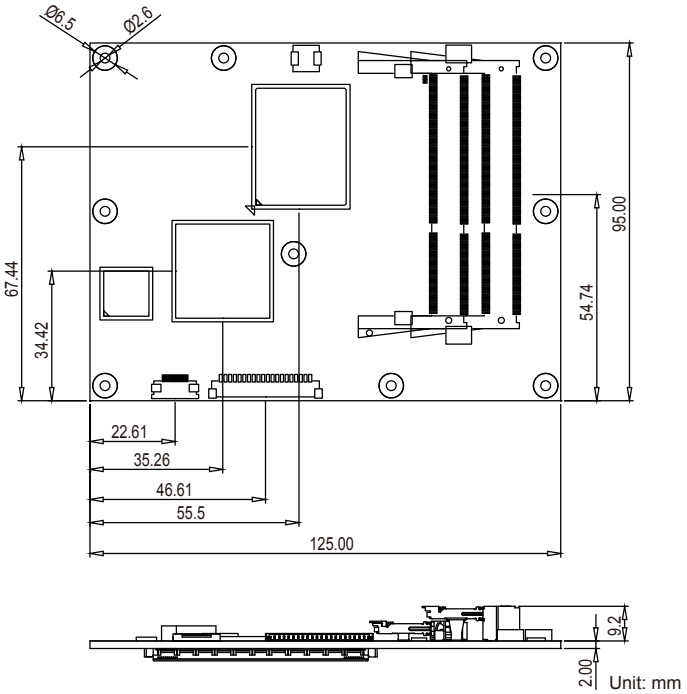
Features

- Soldered onboard 2nd Generation Intel® Core™ i7-2610UE/ Celeron® 827E
- Integrated Gigabit Ethernet
- Dual Channels 24-bit LVDS, Analog RGB and DDI Port
- Dual Independent Displays supported
- **Wide-Range Operating Temp.: -40 ~ 85°C**

System	
Processor	Soldered onboard 2nd Generation Intel® Core™ Processor i7-2610UE 1.5GHz Celeron® Processor 827E 1.4GHz
Chipset	Intel® PCH QM67 for COM-873E-2610UE
	Intel® PCH HM65 for COM-873E-827E
Memory	2 x DDR3 SO-DIMM sockets, supporting up to 16GB 1066MT/s SDRAM
BIOS	AMI BIOS
Watchdog Timer	1~255 levels reset
I/O	
USB 2.0	8 x USB 2.0 ports
Expansion	5 x PCIex1, 1 x PCIex16, LPC, 4 x PCI
Storage	2 x Serial ATA ports with 300MB/s HDD transfer rate
	2 x Serial ATA ports with 600MB/s HDD transfer rate
Ethernet Chipset	1 x Intel® 82583V PCIe GbE controller
Digital I/O	8-bit Programmable
Audio	HD link
Display	
Graphic Chipset	Integrated Intel® HD Graphics 3000
Graphic Interface	Analog RGB/DVI: Analog RGB, with resolution up to 2048x1536
	LCD: Dual Channels 24-bit LVDS, with resolution up to 1920x1600
	1 x DDI port (OEM request)
OS Support	
Windows XP 32-bit/64-bit Windows 7 32-bit/64-bit Linux: Ubuntu	

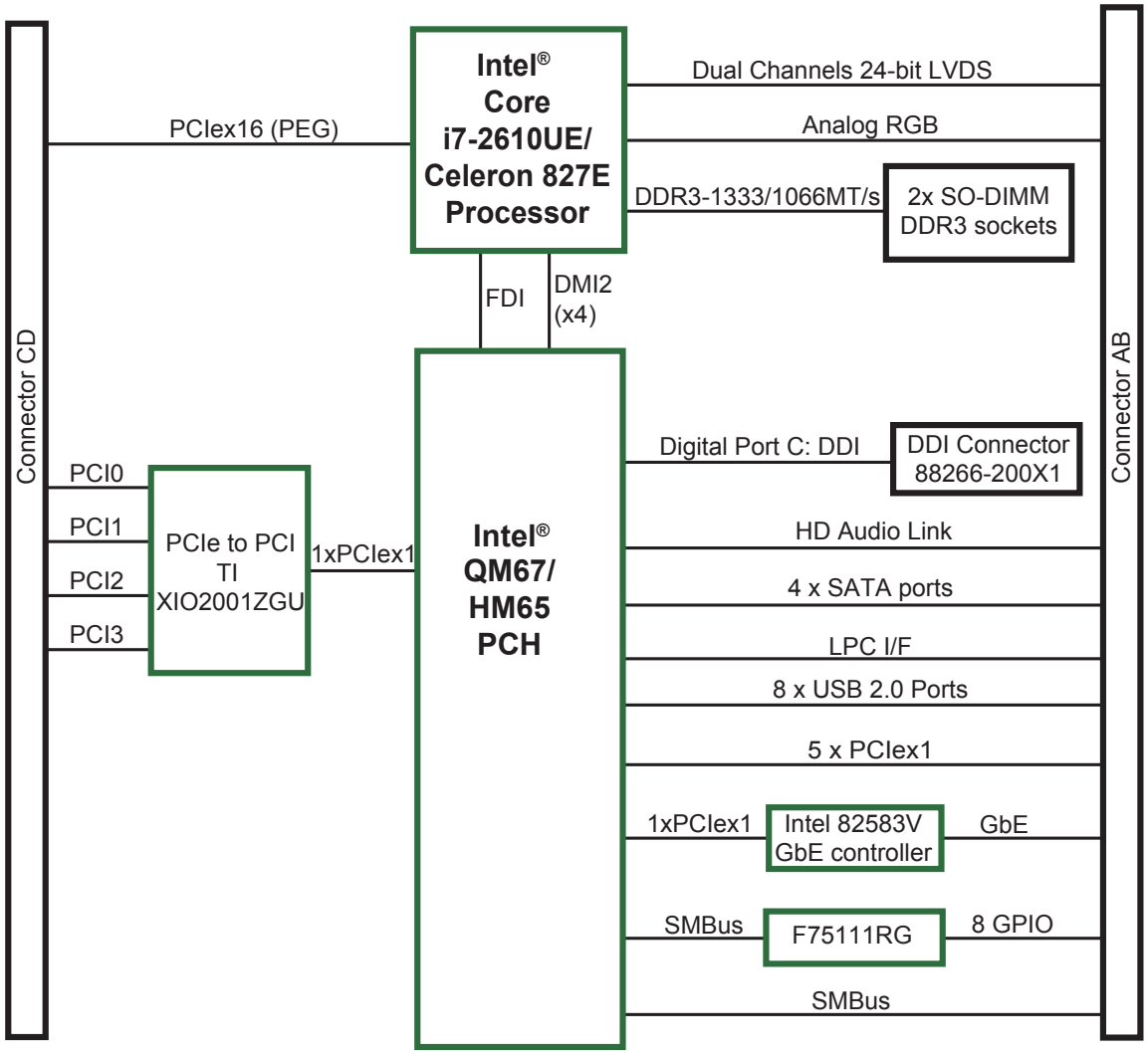
Mechanical & Environmental	
Power Requirement	DC 12V, 5VSB
Power Consumption	2.11A@12V with i7-2610UE (Typical, with PBE-1700)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
Dimension (L x W)	125 x 95 mm (4.9" x 3.7")

Dimensions



Computer on Module

Block Diagram



Ordering Information

COM-873E-2610UE (BTO)	2nd Generation Intel® Core™ i7-2610UE/ QM67 WT COM Express® Basic Type 2 CPU module
COM-873E-827E (BTO)	Intel® Celeron® 827E/ HM65 WT COM Express® Basic Type 2 CPU module

Optional Accessories

HS-67M1-F2	Heat spreader 125x95x11mm
HS-0000-W4	Universal evaluation heat sink kit with thermal pad 125x95x22mm, only used on a flat-type heat spreader
FCDB-1424	DisplayPort daughter board
PBE-1700-W R1.3	COM Express® Type 2 evaluation carrier board with Super IO W83627 in ATX form factor
CBK-04-1700-00	Cable kit 1 x SATA cable 1 x Serial port cable 1 x FDD cable 1 x IDE cable