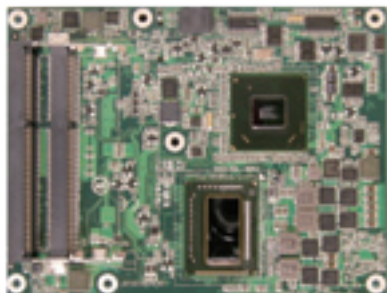


COM-870E



Wide-Range Temperature 2nd Gen. Intel® Celeron® 827E COM Express Basic Type 6 CPU Module



Features

- Soldered Onboard 2nd Gen. Intel® Celeron® 827E Processor
- Integrated Gigabit Ethernet
- Dual Channels 24-bit LVDS, Analog RGB, and 3 x DDI Ports
- Support Dual Independent Displays
- Support Intel® Active Management Technology (Intel AMT)
- **Wide Range Operating Temp.: -40 ~ 85°C**

System

CPU	Soldered onboard Intel® Celeron® 827E 1.4GHz processor
Memory	2 x DDR3 SO-DIMM sockets, supporting SDRAM up to 16GB
Chipset	Intel® PCH HM65
BIOS	AMI UEFI BIOS
Watchdog Timer	1~255 levels reset

I/O

USB Port	8 x USB 2.0 ports
Digital I/O	8-bit programmable Digital Input/Output
Expansion Bus	1 x PCIe x16 lanes 7 x PCIe x1 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
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Ethernet Chipset	1 x Intel® 82579LM PCIe GbE PHY
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Audio	HD Audio Link
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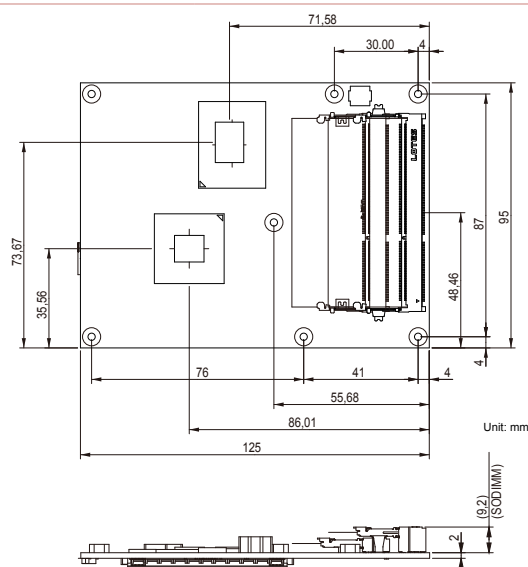
Display

Graphics Chipset	Integrated Intel® HD Graphics 3000
Graphics Interface	Analog RGB supports resolution up to 2048 x 1536 @60Hz LCD: Dual Channels 24-bit LVDS Support DDI ports, resolution up to 2536 x 1600 Support Dual Independent Displays

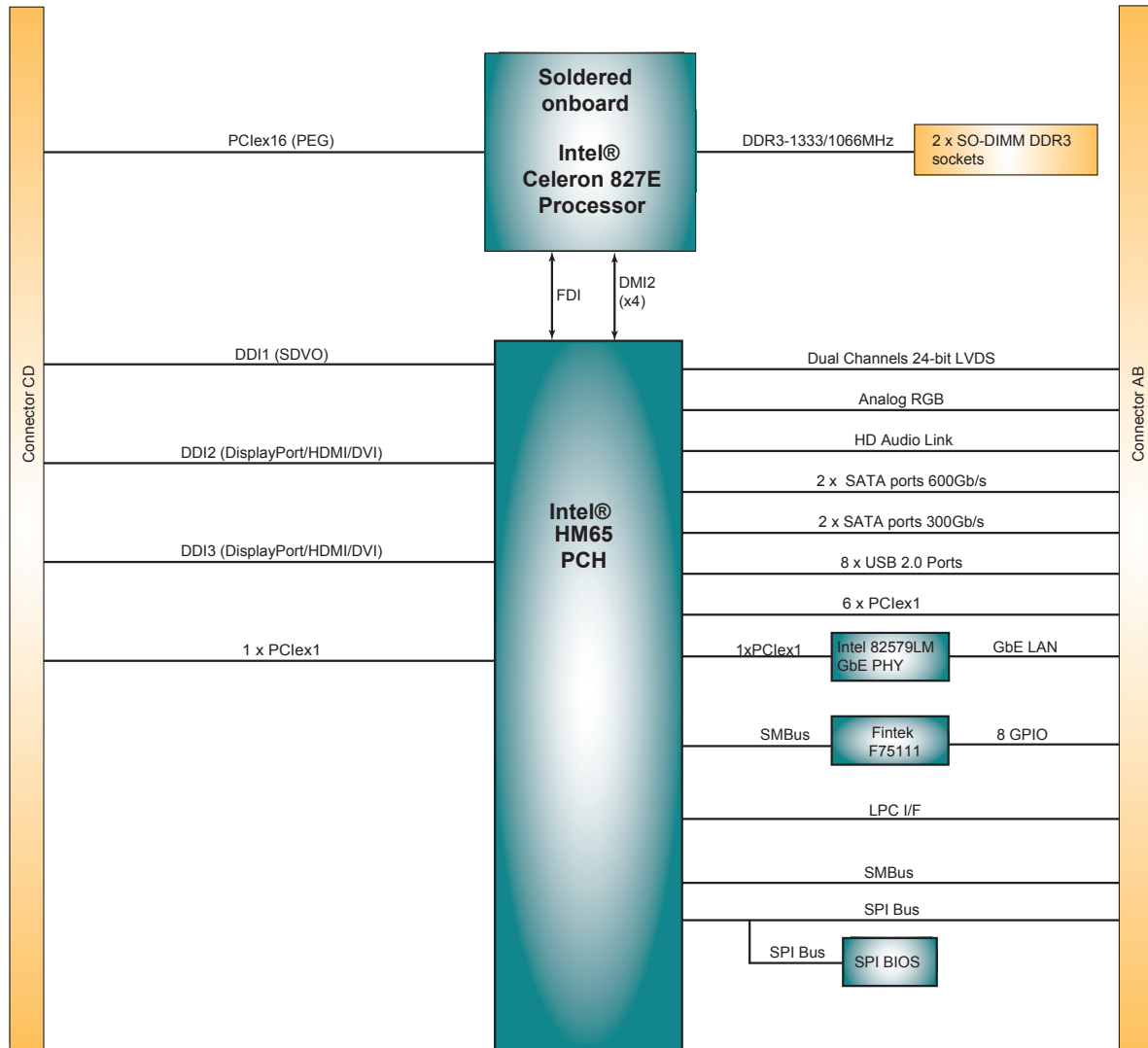
Mechanical & Environmental

Power Requirement	+12V, 5VSB
Power Consumption	2.12A@+12V with Celeron® 827E (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



Block Diagram



Ordering Information

COM-870E Intel® Celeron® 827E/ HM65 WT COM Express CPU module

Optional Accessories

HS-65M2-F1 Heat spreader (125x95x18mm)

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

Mouser Electronics

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