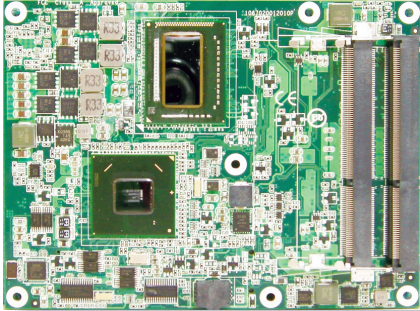


COM-870E



Wide-Range Temperature Intel® Celeron® Processor 827E COM Express® Basic Type 6 CPU Module



Features

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

System

Processor	Soldered onboard Intel® Celeron® Processor 827E 1.4GHz
Chipset	Intel® PCH HM65
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	7 x PCIe1 Gen.2, 1 x PCIe16 Gen3, LPC 2 x Serial ATA ports with 300MB/s HDD transfer rate 2 x Serial ATA ports with 600MB/s HDD transfer rate
Storage	2 x Serial ATA ports with 600MB/s HDD transfer rate
Ethernet Chipset	1 x Intel® 82579LM PCIe GbE PHY
Digital I/O	8-bit Programmable
Audio	HD link
TPM Function	TPM supported (OEM request)

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 1920x1200 DDI port: 3 x DDI ports Dual independent displays supported

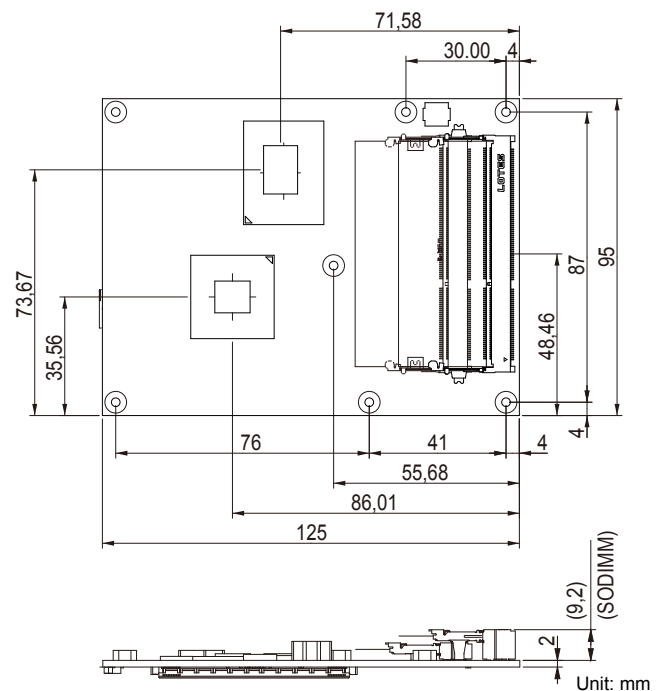
OS Support

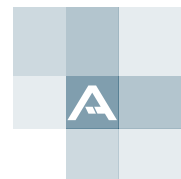
Windows XP 32/64-bit
Windows 7 32-bit/64-bit
Linux: Ubuntu

Mechanical & Environmental

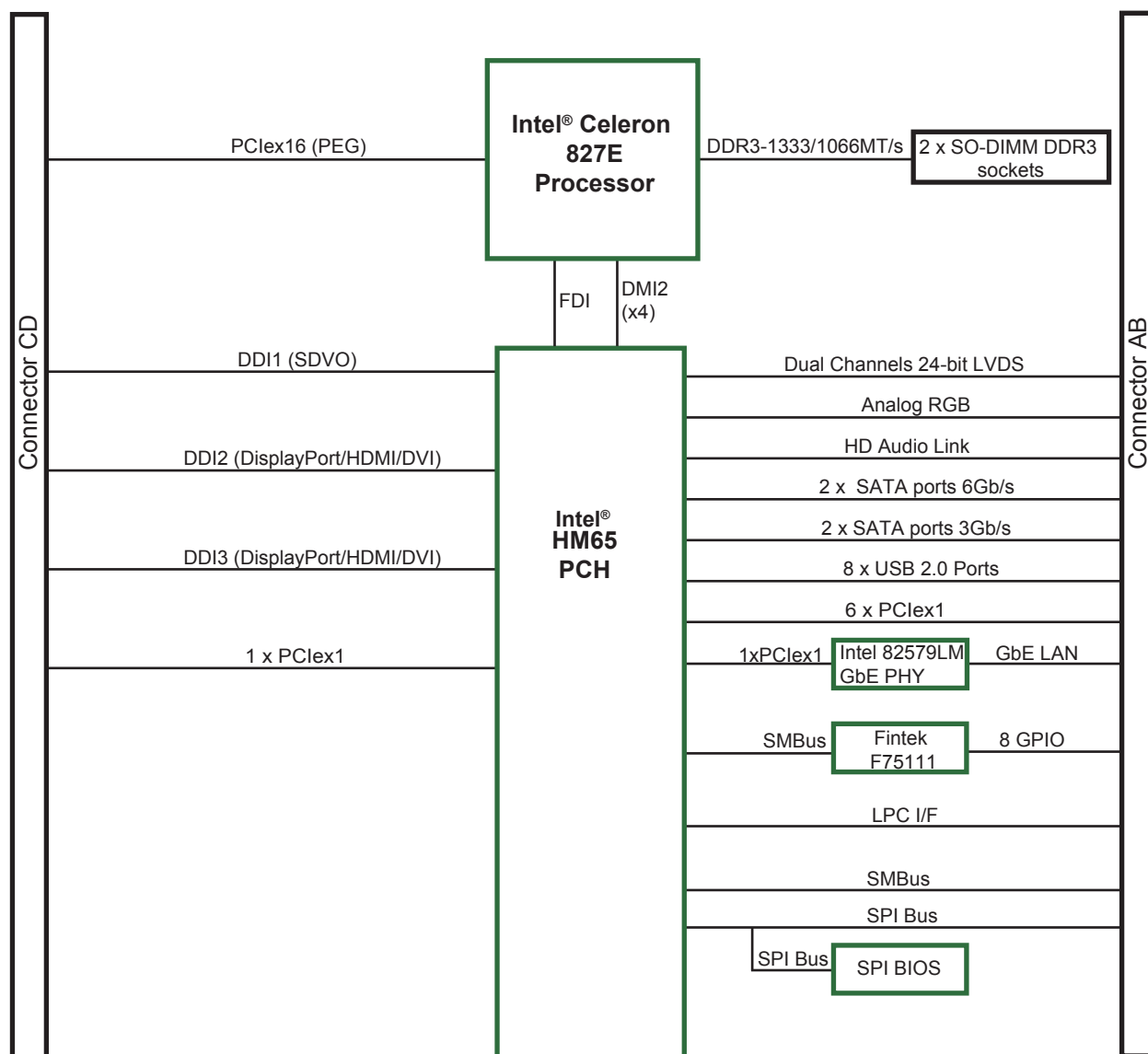
Power Requirement	DC 12V, 5VSB
Power Consumption	2.12A@12V with Celeron® 827E (Typical, with PBE-1702)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
Dimension (L x W)	125 x 95 mm (4.9" x 3.7")

Dimensions





Block Diagram



Ordering Information

COM-870E-827E (BTO) Intel® Celeron® Processor 827E/ HM65 WT COM Express® Basic Type 6 CPU module

Optional Accessories

HS-65M2-F1	Heat spreader 95x95x18mm, recommended for i7-3517UE CPU module using
HS-0000-W4	Universal evaluation heat sink kit with thermal pad 125x95x22mm, only used on a flat-type heat spreader
CPF-0000-C1	FAN, 4500RPM, 60x60x20mm
PBE-1702	COM Express® Type 6 evaluation carrier board with Super IO F71869ED in ATX form factor
CBK-04-1702-00	Cable kit 1 x SATA cable 2 x Serial port cables 1 x USB cable