

COM-746E



Intel® Atom™ N455 COM Express Basic Type 2 CPU Module



Features

- **Fanless Design**
- Soldered Onboard Intel® Atom™ N455 Processor
- Soldered Onboard DDR3 2GB Memory
- Integrated Gigabit Ethernet
- Support Both LVDS and Analog RGB Output
- Support Dual Independent Displays
- **Wide Range Operating Temp.: -40 ~ 85°C**

System

CPU	Soldered onboard Intel® Atom™ N455 1.6GHz processor
Memory	Soldered onboard DDR3 2GB SDRAM
Chipset	Intel® ICH8M
BIOS	AMI PnP Flash 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
	5 x PCIe x1 lanes
Expansion Bus	4 x PCI masters LPC (Low Pin Count) interface
Storage	1 x Ultra ATA, supporting 2 IDE devices 3 x Serial ATA ports with 300MB/s HDD transfer rate
Ethernet Chipset	1 x Intel® 82574IT PCIe Gigabit Ethernet controller
Audio	HD Audio link

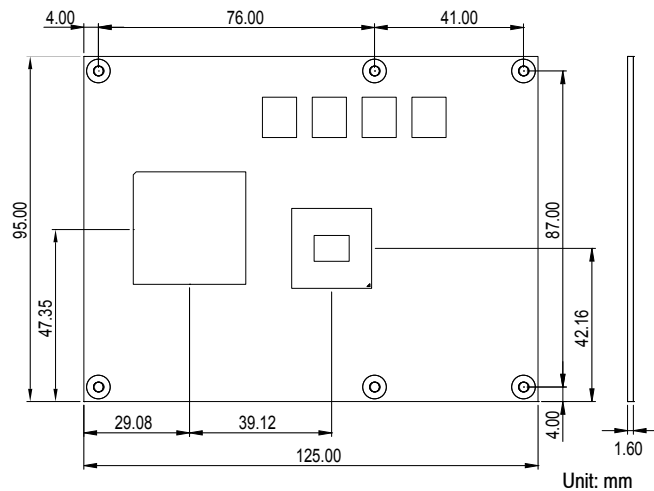
Display

Graphics Chipset	Integrated Intel® Graphics Media Accelerator 3150
	Analog RGB supports up to 1400 x 1050 @60Hz
Graphics Interface	Single channel 18-bit LVDS supports up to 1280 x 800 or 1366 x 768
	Support dual independent displays

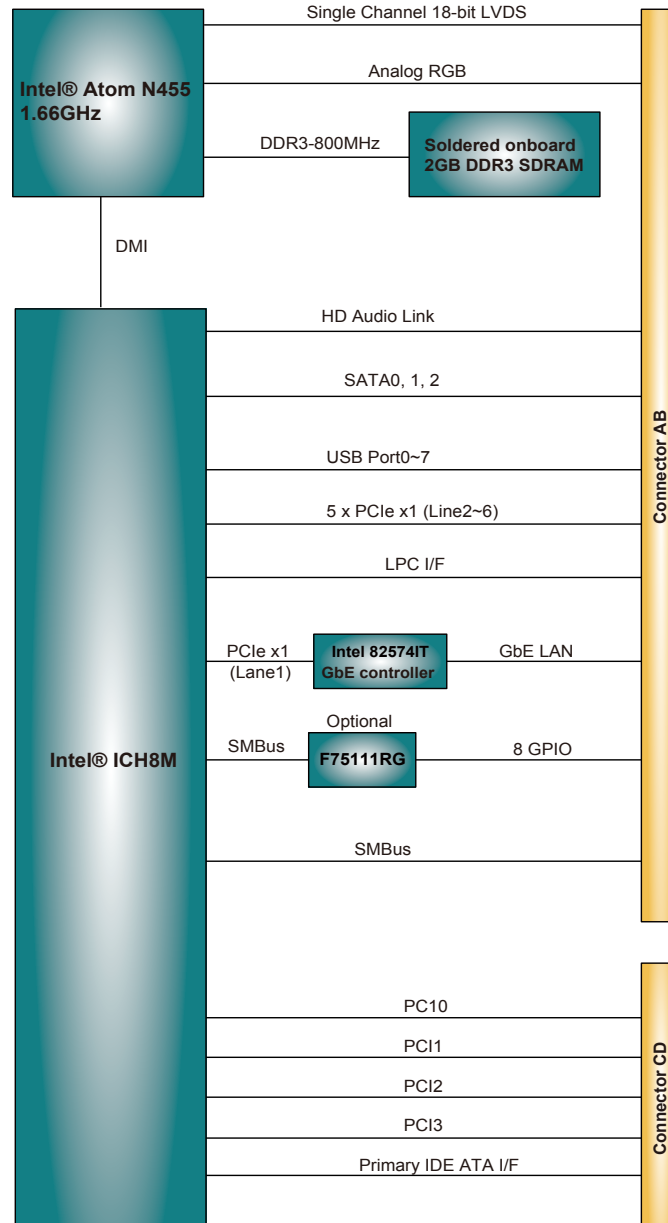
Mechanical & Environmental

Power Requirement	+12V, 5VSB
Power Consumption	1.05A@+12V (Typical)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	0 ~ 95% (non-condensing)
Dimension (L x W)	125 x 95 mm (4.9" x 3.7")

Dimensions



Block Diagram



Ordering Information

COM-746E	Intel® Atom™ N455 COM Express CPU module	
HS-0746-F1	Heat spreader (95 x 125 x 18 mm)	
PBE-1700-W R1.3	COM Express type 2 evaluation board in ATX form factor w/ W83627 Super IO	See Appendix
CBK-04-1700-00	Cable kit 1 x SATA cable 1 x COM Port cable 1 x FDD cable 1 x IDE cable	