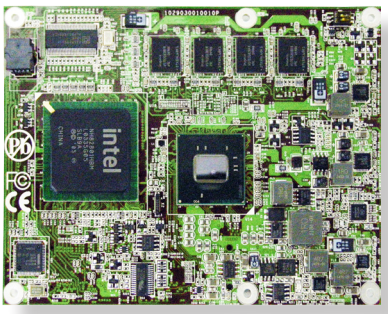
EmETXe-i2903

COM Express

Intel® Atom™ Processor N455/ D525
COM Express® Basic Type 2 CPU Module



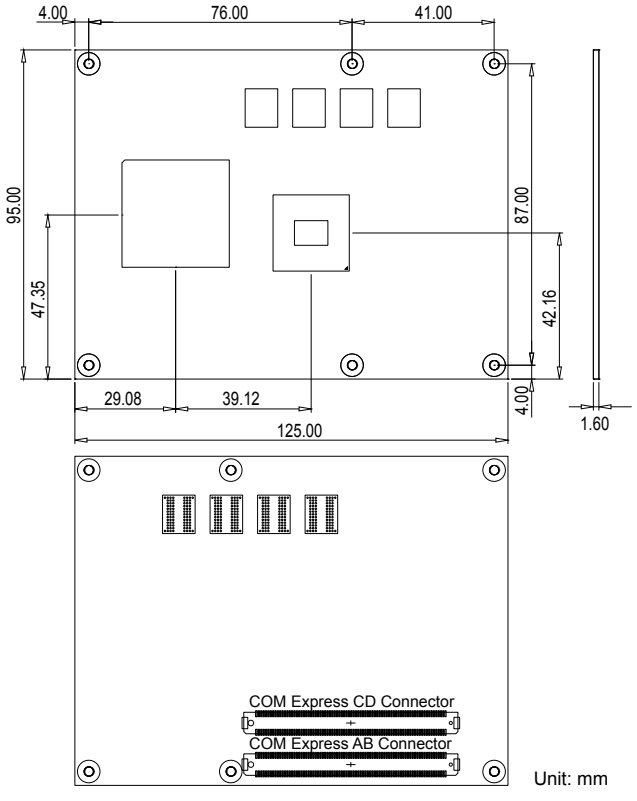
Features

- **Fanless Design**
- Soldered onboard Intel® Atom™ Processor N455/D525
- Integrated Gigabit Ethernet
- Single channel 18-bit LVDS LVDS and Analog RGB
- Dual Independent Displays supported
- **Extended Operating Temp.: -20 ~ 70°C**

System	
Processor	Soldered onboard Intel® Atom™ Processor N455 1.66GHz D525 1.80GHz
Chipset	Intel® ICH8M
Memory	Soldered onboard 2GB DDR3 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, LPC, 4 x PCI
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 GbE controller
Digital I/O	8-bit Programmable
Audio	HD link
Display	
Graphic Chipset	Integrated Intel® GMA 3150
Graphic Interface	Analog RGB/DVI: Analog RGB, with resolution up to 1400x1050 (N455), 2048x1536 (D525)
	LCD: Single channel 18-bit LVDS, with resolution up to 1366x768
OS Support	
Windows XP 32/64-bit Windows 7 32-bit/64-bit Linux: Ubuntu	

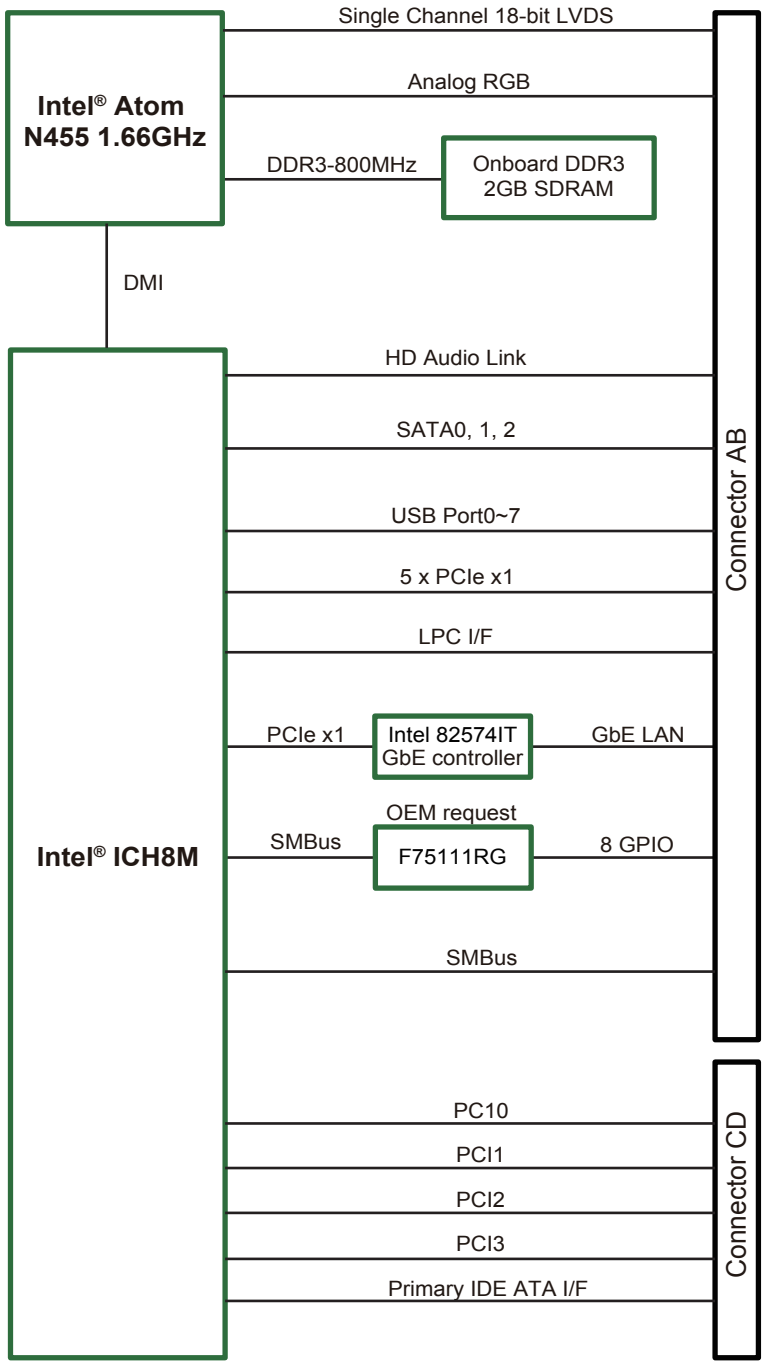
Mechanical & Environmental	
Power Requirement	DC 12V, 5VSB
Power Consumption	1.25A@12V with D525 (Typical, with PBE-1700)
Operating Temp.	-20 ~ 70ºC (-4 ~ 158ºF)
Operating Humidity	10 ~ 95% @ 70ºC (non-condensing)
Dimension (L x W)	125 x 95 mm (4.9" x 3.7")

Dimensions



Computer on Module

Block Diagram



Ordering Information	
EmETXe-i2903-N4 (OEM request)	Intel® Atom™ Processor N455/ ICH8M COM Express Basic Type 2 CPU module
EmETXe-i2903-D5	Intel® Atom™ Processor D525/ ICH8M COM Express Basic Type 2 CPU module
Optional Accessories	
HS-0746-F2	Heat spreader 125x95x8mm
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-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