EmETXe-i2905

COM Express

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



Features

- **Fanless Design**
- Soldered Onboard Intel® Atom™ N455/D525 Processor
- Integrated Gigabit Ethernet
- Support Both LVDS and Analog RGB Output
- Dual Independent Displays
- **Extended Operating Temp.: -20 ~ 70°C**

System

CPU	Soldered onboard Intel® Atom™ N455 1.6GHz or D525 1.8GHz processor
Memory	Soldered onboard 2GB DDR3 SDRAM
Chipset	Intel® ICH8M
BIOS	AMI UEFI BIOS
Storage	1 x Ultra ATA, supporting 2 IDE devices
	3 x Serial ATA ports with 300MB/s HDD transfer rate

I/O

USB Port	8 x USB 2.0 ports
Digital I/O	8-bit programmable Digital Input/Output
Expansion Bus	5 x PCIe x1 lanes
	4 x PCI masters
	LPC (Low Pin Count) interface
Ethernet Chipset	1 x Intel® 82574L PCIe GbE controller
Audio	HD Audio Link

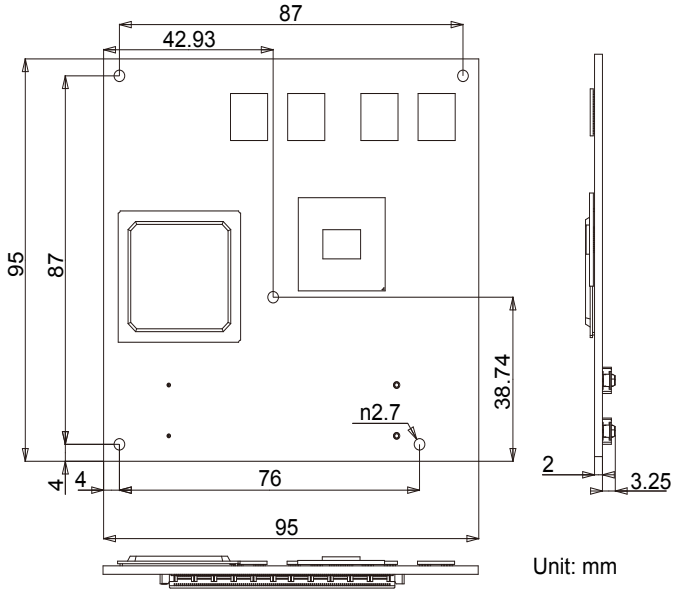
Display

Graphics Chipset	Integrated Intel® Graphics Media Accelerator 3150
Graphics Interface	Analog RGB supports resolution up to: - 1400 x 1050 @ 60Hz (N455) - 2048 x 1536 @ 60Hz (D525)
	Single Channel 18/24-bit LVDS supports resolution up to: - 1280 x 800 or 1366 x 768 (N455) - 1366 x 768 (D525)
	Support Dual Independent Displays

Mechanical & Environmental

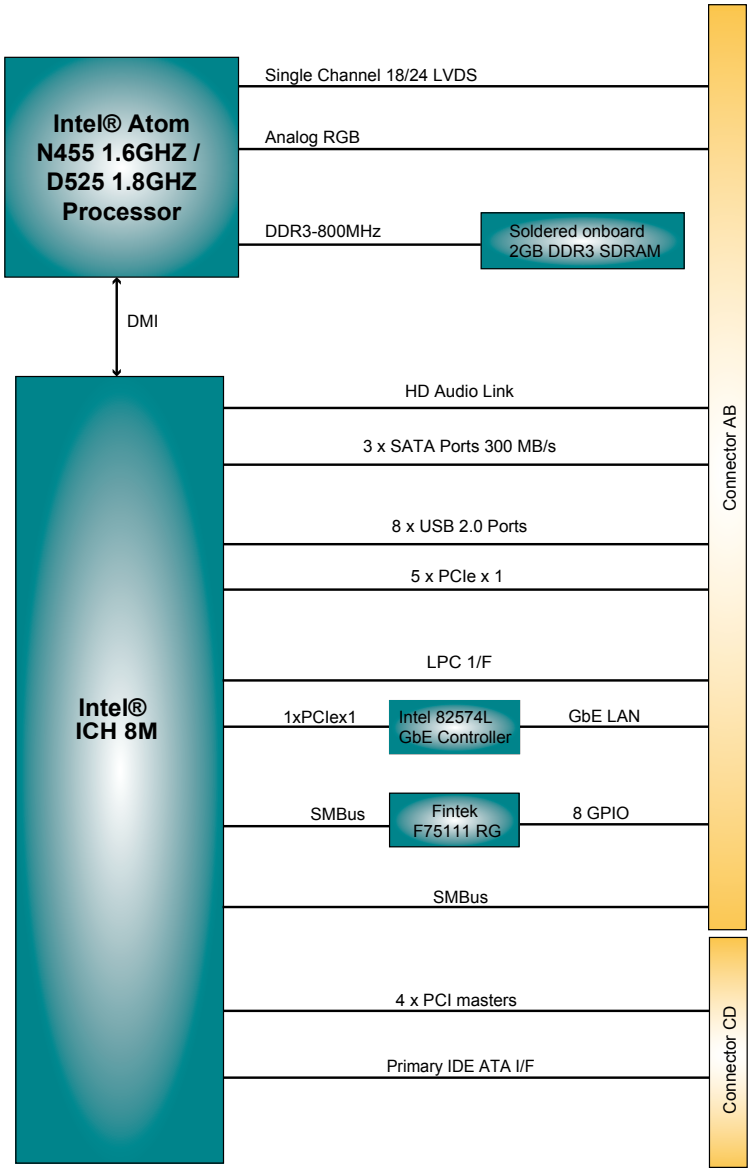
Power Requirement	12V, 5VSB
Power Consumption	1.05A/12V with N455 (Typical)
	1.25A/12V with D525 (Typical)
Operating Temp.	-20 ~ 70ºC (-4 ~ 158ºF)
Operating Humidity	10 ~ 95% @ 70ºC (non-condensing)
Dimension (L x W)	95 x 95 mm (3.7" x 3.7")

Dimensions



All specifications are subject to change without notice.

Block Diagram



Ordering Information

EmETXe-i2905-N4	Intel® Atom™ N455 COM Express Compact CPU module
EmETXe-i2905-D5	Intel® Atom™ D525 COM Express Compact CPU module

Optional Accessories

HS-2905-F1-KIT	Heat spreader (95 x 95 x 11mm)	
HS-0000-W4	Universal evaluation heatsink kit w/ thermal pad (dimension: 125x95x22mm, only used on a flat type heatspreader)	
PBE-1700-W R1.3	COM Express Type 2 evaluation board in ATX form factor w/ W83627 Super IO	Page 64
CBK-04-1700-00	Cable kit • 1 x SATA cable • 1 x COM port cable • 1 x FDD cable • 1 x IDE cable	
CPF-0000-C1	FAN, 4500RPM, 60x60x20mm	