

# EmETXe-i2905

## 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

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

### I/O

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

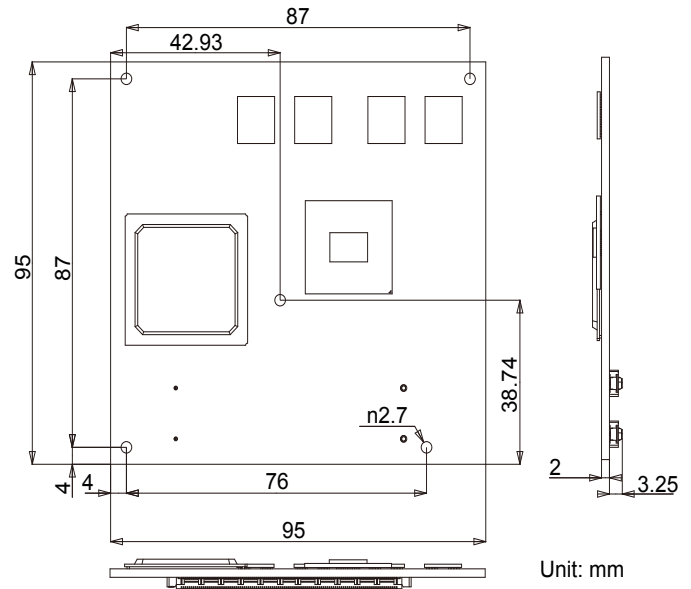
### Display

<b>Graphics Chipset</b>	Integrated Intel® Graphics Media Accelerator 3150 Analog RGB supports resolution up to: - 1400 x 1050 @ 60Hz (N455) - 2048 x 1536 @ 60Hz (D525)
<b>Graphics Interface</b>	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

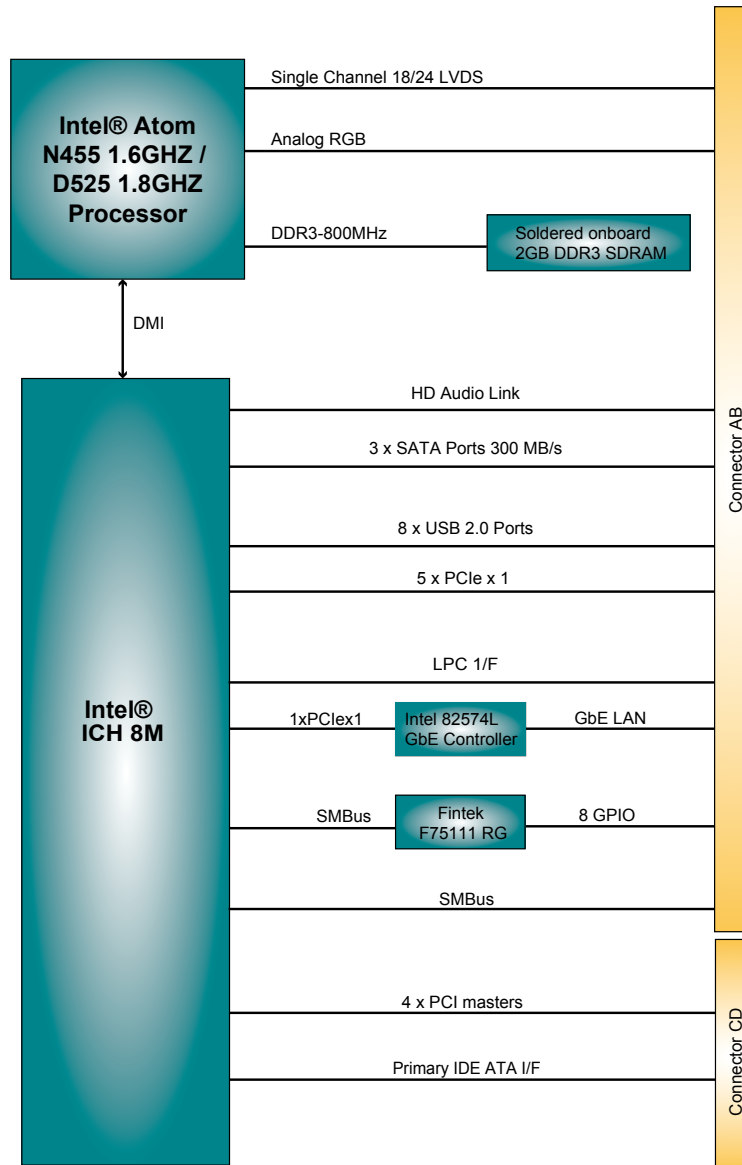
### Mechanical & Environmental

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

### Dimensions



## 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