

# EmETXe-i2503



## Intel® Atom™ N2600/ D2550 COM Express Compact Type 2 CPU Module



### Features

- **Fanless Design**
- Soldered Onboard Intel® Atom™ N2600 / D2550 Processor
- Integrated Gigabit Ethernet
- Single Channel 18-bit N2600 / 24-bit D2550 LVDS, Analog RGB
- Support Dual Independent Displays
- **Extended Operating Temp.: -20 ~ 70°C**

### System

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| <b>CPU</b>            | Soldered onboard Intel® Atom™ N2600 1.6GHz/ D2550 1.86GHz processor              |
| <b>Memory</b>         | 1 x DDR3 SO-DIMM socket, supporting 1066MHz SDRAM up to 4GB (D2550)/ 2GB (N2600) |
| <b>Chipset</b>        | Intel® PCH NM10                                                                  |
| <b>BIOS</b>           | AMI UEFI BIOS                                                                    |
| <b>Watchdog Timer</b> | 1~255 levels reset                                                               |

### I/O

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| <b>USB Port</b>         | 8 x USB 2.0 ports                                   |
| <b>Digital IO</b>       | 8-bit programmable Digital Input/ Output            |
|                         | 2 x PCIe x1 lanes                                   |
| <b>Expansion Bus</b>    | 4 x PCI masters                                     |
|                         | SPI and LPC (Low Pin Count) interfaces              |
| <b>Storage</b>          | 2 x Serial ATA ports with 300MB/s HDD transfer rate |
| <b>Ethernet Chipset</b> | 1 x Intel® 82583V PCIe GbE controller               |
| <b>Audio</b>            | HD Audio Link                                       |

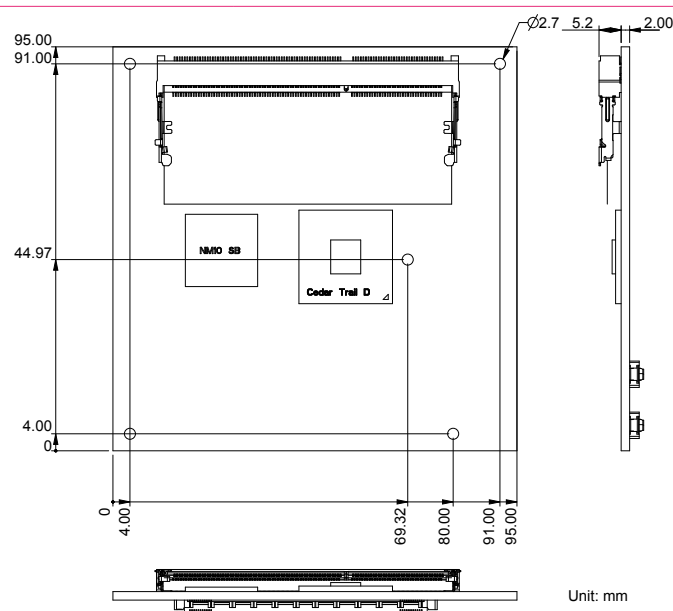
### Display

|                           |                                                                                                                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Graphics Chipset</b>   | Integrated Intel® Graphics Media Accelerator 3650 (Gfx frequency 640 MHz) for D2550 processor<br>Integrated Intel® Graphics Media Accelerator 3600 (Gfx frequency 400 MHz) for N2600 processor |
|                           | Support Analog RGB                                                                                                                                                                             |
| <b>Graphics Interface</b> | LCD:<br>- Single Channel 18-bit LVDS for N2600<br>- Single Channel 24-bit LVDS for D2550<br>Support Dual Independent Displays                                                                  |

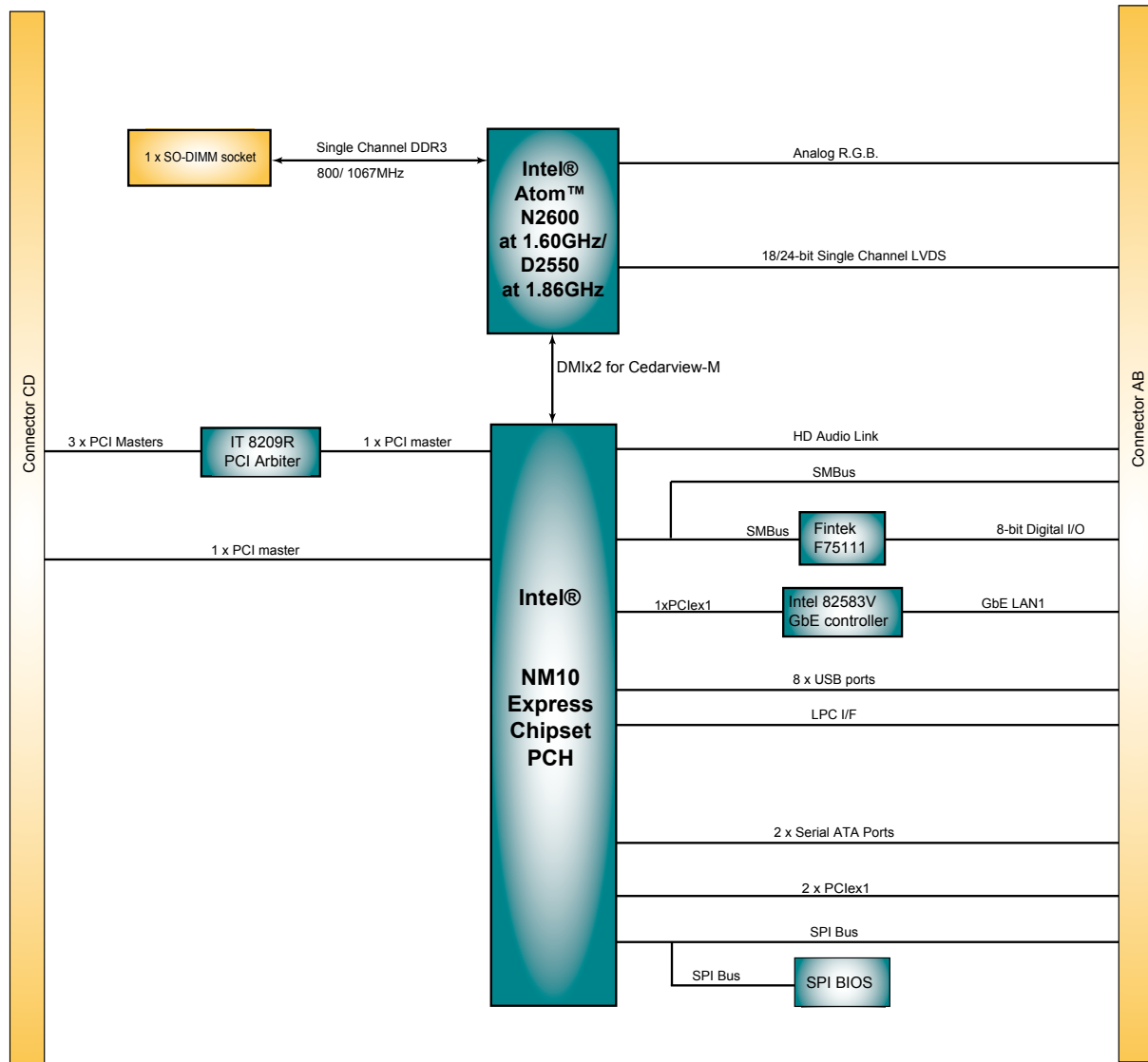
### Mechanical & Environmental

|                           |                                  |
|---------------------------|----------------------------------|
| <b>Power Requirement</b>  | +12V, 5VSB                       |
| <b>Power Consumption</b>  | 0.95A@+12V (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

**EmETX-e-i2503-N26** Intel® Atom™ N2600 1.6GHz COM express Compact CPU module

**EmETX-e-i2503-D25 (BTO)** Intel® Atom™ D2550 1.86GHz COM express Compact CPU module

## Optional Accessories

**HS-250C-F2** Heat spreader (95x95x11mm)

**HS-0000-W4** Universal evaluation heatsink kit w/ thermal pad (dimension: 125x95x22mm, only used on a flat type heatspreader)

**PBE-1700-F R1.3** COM Express Type 2 evaluation board in ATX form factor w/ F71869 Super IO

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**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