

EmETXe-i2503

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



Features

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

System

CPU	Soldered onboard Intel® Atom™ Processor N2600 dual-core 1.6GHz/ D2550 dual-core 1.86GHz
Memory	1 x DDR3 SO-DIMM socket, supporting 1066MHz SDRAM up to 4GB (D2550)/ 2GB (N2600)
Chipset	Intel® PCH NM10
BIOS	AMI UEFI 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
Expansion Bus	2 x PCIe x1 lanes
	4 x PCI masters
Storage	SPI and LPC (Low Pin Count) interfaces
	2 x Serial ATA ports with 300MB/s HDD transfer rate
Ethernet Chipset	1 x Intel® 82583V PCIe GbE controller
Audio	HD Audio link

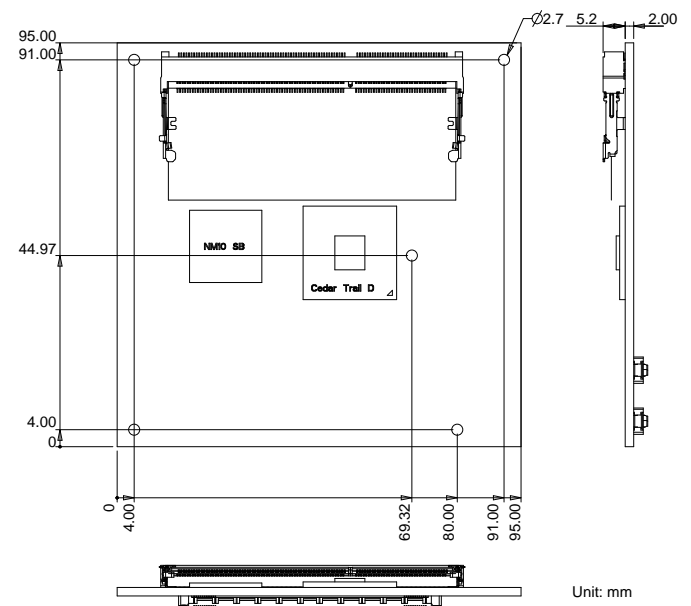
Display

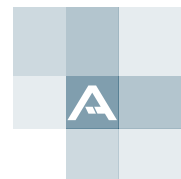
Graphic Chipset	Integrated Intel® Graphics Media Accelerator 3650 (Gfx frequency 640 MHz) for D2550
	Integrated Intel® Graphics Media Accelerator 3600 (Gfx frequency 400 MHz) for N2600
Graphic Interface	Analog RGB supported
	LCD:
	- Single Channel 18-bit LVDS for N2600 - Single Channel 24-bit LVDS for D2550
Dual independent displays supported	

Mechanical & Environmental

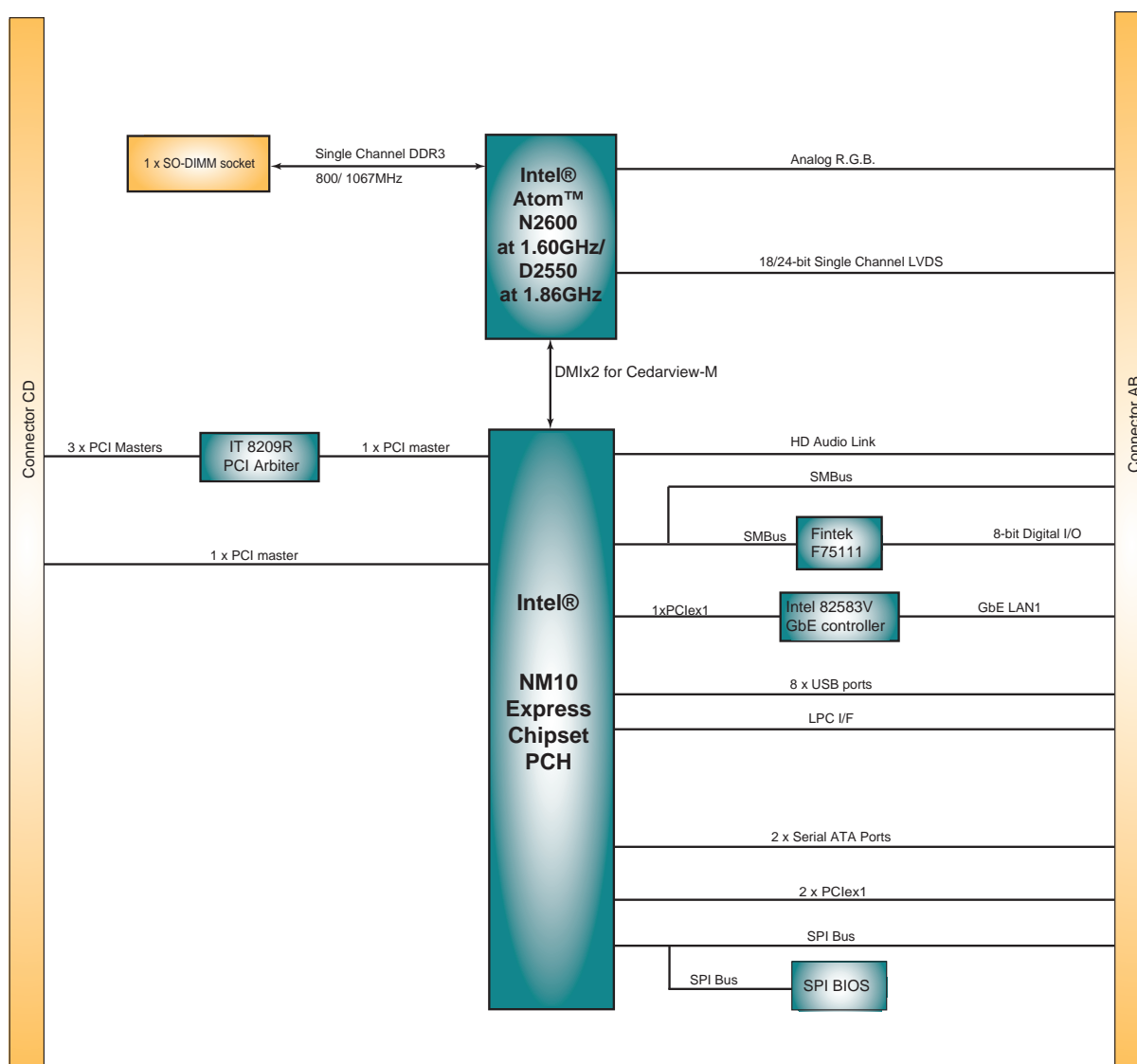
Power Requirement	+12V, 5VSB
Power Consumption	0.95A @ +12V (Typical)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing)
Dimensions (L x W)	95 x 95 mm (3.7" x 3.7")

Dimensions





Block Diagram



Ordering Information

EmETXe-i2503-N26 (BTO)	Intel® Atom™ Processor N2600 1.6GHz COM Express® Compact CPU module
EmETXe-i2503-D25	Intel® Atom™ Processor D2550 1.86GHz COM Express® Compact CPU module

Optional Accessories

HS-250C-F2	Heat spreader (95x95x11mm)
HS-0000-W4	Universal evaluation heatsink kit with thermal pad (dimension: 125x95x22mm, only used on a flat type heat spreader)
PBE-1700-F R1.3	COM Express® Type 2 evaluation board in ATX form factor with F71869 Super IO
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