



# EmCORE-i2703

Intel® Atom™ N270 ISA Half-size SBC



## Features

- **Fanless Design**
- Soldered Onboard Intel® Atom N270 1.6GHz Processor
- Soldered Onboard 512MB DDR2 SDRAM, up to 1GB
- Dual Channels 24-bit LVDS, TV-out, and Analog RGB
- Dual Independent Displays
- Support 64mA ISA High Drive Buffer
- Multi-expansion (2 x SATA, 6 x USB, 1 x PATA, 1 x CF Socket, 4 x Serial Ports, PC/104, ISA Bus)
- **Extended Operating Temp: -20 ~ 70°C**

## System

<b>CPU</b>	Intel® Atom™ N270 1.6GHz CPU 533MHz FSB
<b>Memory</b>	Soldered onboard 512MB DDR2 SDRAM, upgradable to 1GB
<b>Chipset</b>	Intel® 945GSE + ICH7M
<b>BIOS</b>	AMI PnP Flash BIOS
<b>Storage</b>	1 x Ultra ATA, support 2 IDE devices 2 x Serial ATA ports with 150MB/s HDD transfer rate 1 x CompactFlash Type II Socket
<b>Watchdog Timer</b>	1~255 levels reset

## I/O

<b>I/O Chip</b>	Winbond W83627UHG
<b>Serial Port</b>	4 x COM ports (3 x RS-232, 1 x RS-232/422/485 selectable)
<b>Parallel Port</b>	1 x LPT port, SPP/EPP/ECP mode selectable
<b>USB Port</b>	6 x USB 2.0 ports
<b>KB/MS</b>	6-pin Mini-DIN connector for keyboard and mouse (PS/2 standard via Y-cable)
<b>Digital I/O</b>	8-bit programmable Digital Input/ Output
<b>Expansion Bus</b>	ISA interface, and PC/104 connector (ISA master not supported)

## Ethernet

<b>Chipset</b>	1 x Realtek RTL8111C PCIe Gigabit Ethernet controller
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## Audio

<b>CODEC/Interface</b>	One 1x9 wafer connector for Optional Audio daughterboard (FCDB-1110 with AC97 Audio CODEC or FCDB-1111 with HD Audio CODEC)
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## Display

<b>Graphics Chipset</b>	Integrated Intel® Graphics Media Accelerator 950
<b>Graphics Interface</b>	Analog RGB: up to 2048 x 1536 LCD: Dual Channels 24-bit LVDS TV-out: NTSC/PAL up to 1024 x 768 Dual mode independent displays

## Mechanical & Environmental

**Power Requirement** Big 4P AT power connector

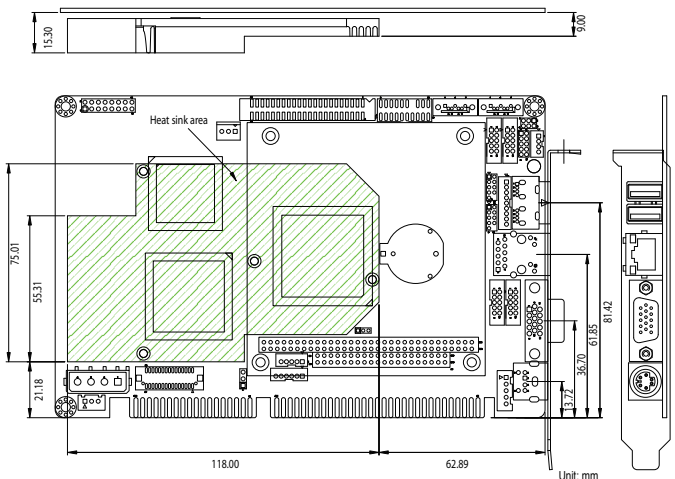
**Power Consumption** 0.08A/12V, 2.39A/4.91V

**Operating Temp.** -20 ~ 70°C (-4 ~ 158°F)

**Operating Humidity** 0 ~ 90% (non-condensing)

**Dimension (L x W)** 185 x 122 mm (7.3" x 4.8")

## Dimensions



## Ordering Information

<b>EmCORE-i2703VL</b>	Intel® Atom N270 1.6GHz ISA half-size SBC
<b>FCDB-1110</b>	Realtek ALC655 AC97 audio daughterboard Page 6-1
<b>FCDB-1111</b>	Realtek ALC888 HD audio daughterboard Page 6-1
<b>ISA Backplane</b>	Page 11-13