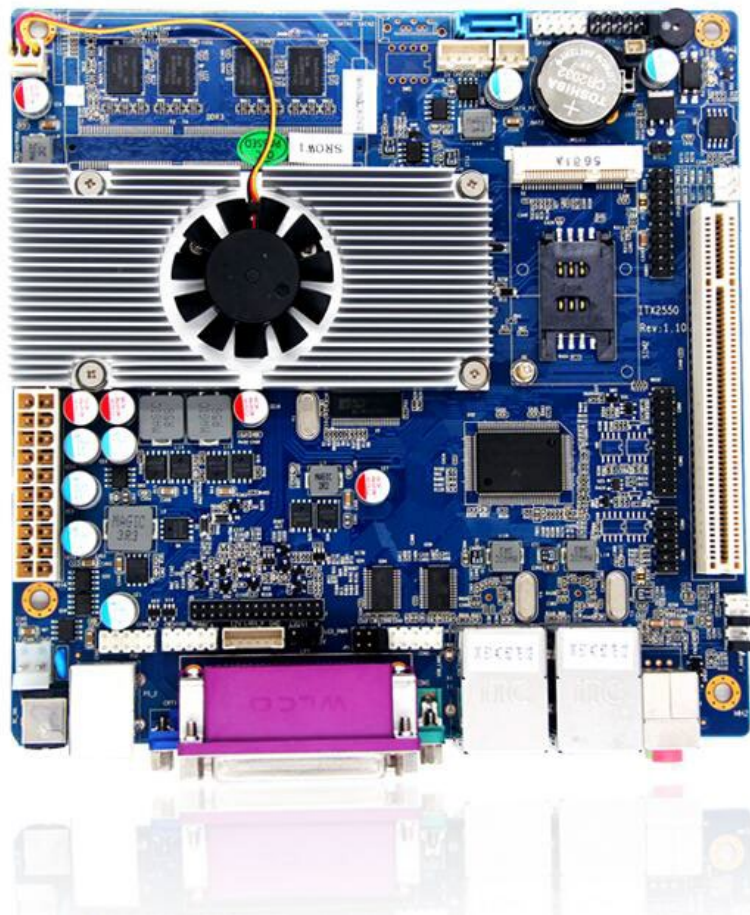




## Embedded Motherboard Based on Intel Atom D2550 Processor

### Main Features:

- Intel Atom D2550 processor + ICH8 chipset, onboard Intel Atom D525 processor
- 1 x onboard 1333 DDR3 2GB memory and 1 x SO-DIMM socket (4GB optional)
- Supports VGA+LVDS display and individual dual display
- 1 x Realtek RTL8111EL PCI-E Gigabit Ethernet LAN, 1 x Mini PCIe supports Wifi or 3G module, 1 x SIM slot supports NEMO Unicom, telecom card
- 2 x SATAII, 8 x USB2.0, 5 x COM, 1x Mini SATA (support SSD), 1x LPT



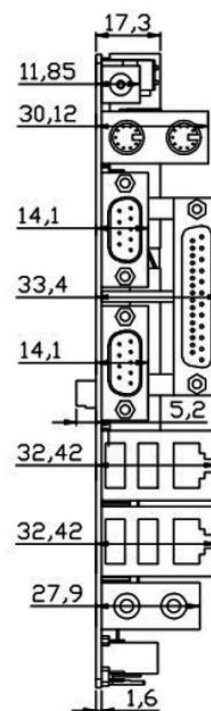
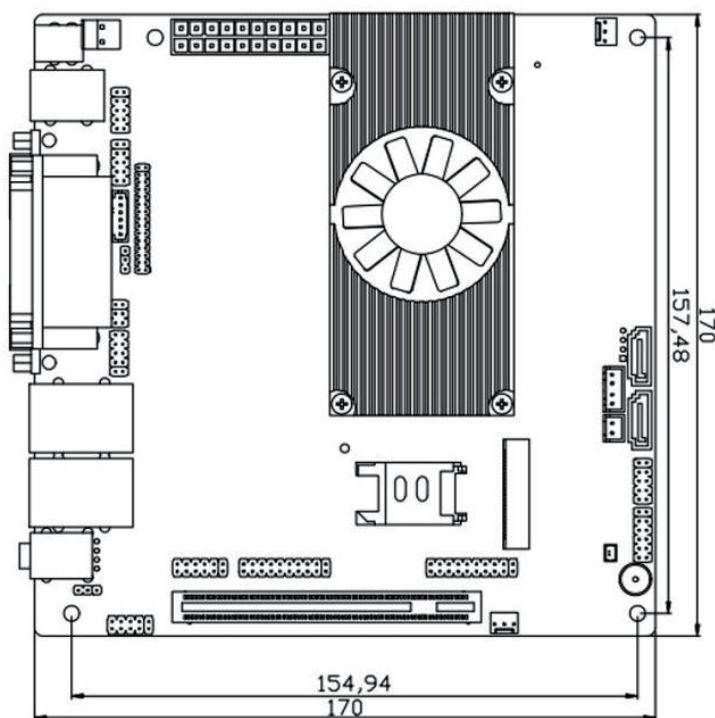
## Specification:

Processor	CPU	Intel Cedar Trail-D Atom D2550 dual-core (32nm, 1.86GHz, 1MB L2 cache)
	CPU Package	BGA
	Chipset	Intel® Atom D2550 + NM10 express chipset
	BIOS	Award 8MB DIP Flash ROM
RAM	Technical Architecture	Single channel 1066/1333/1600 MHz
	Volume	Integrated onboard DDR3 2GB RAM
Video	Graphic Controller	Integrated Intel GMA3650 Graphics Core (shared memory 128/224MB)
	Dual LVDS	Onboard 18/24bit single channel LVDS connector
	VGA	Max support 1920 x 1080P
	HDMI	No
	Dual Display	LVDS + VGA dual display
I/O	Rear Panel I/O	1 x VGA, 2 x RS232, 1 x LAN, 2 x USB, 1 x Mic-in/Line-out
Network	Controller	2 x RTL8111E-VL 10/100/1000Mbps Gigabit Ethernet LAN
AUDIO	Controller	Onboard HD ALC662 chipset (Mic-in/Line-out)
Super I/O	Controller	W83627DHG
Hardware Monitor	Watchdog Timers	Level 255 timer
	Cooler	Aluminum fan or fanless heater
I/O Ports	USB	6 x USB 2.0
	COM	5 x COM expansion headers (supports RS232/488/485)
	PS/2	1 x PS/2 interface (Mouse/Keyboard)
	GPIO	8 x GPIO expansion header(8 bit), 3.3V@24mA electrical level
Expansion Sockets	Mini-PCIe	1 x MINI PCIe slot, supports PCIe and USB equipment
Storage	SATA	2 x Standard Sata-II, max transmission speed 3GB/S
	M-SATA	1 x Mini Sata Socket, support SANDISK protocol, max transmission speed 3GB/S
Power Supply	Power Type	Single-input DC power supply DC 12V +/-5%
	Power Consumption	17W
Temperature Environment	Working Temperature	-20~70°C (-4~158°F)
	Storage Temperature	-20~80°C (-4~176°F)
	Operating Humidity	10~90% (non-condensing)
	Storage Humidity	10~90% (non-condensing)
	Weight	0.5 KG
Certification		ROHS, CE, FCC

## I/O Interfaces:



## Dimension:



## ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9 years' experience, always delivers best-in-class embedded computing solutions based on both ARM and X86 architecture, including hardware customization and software debugging etc. Partnered with silicon vendors like Intel, NXP, ST, Rockchip, Allwinners and so on, we have earned trust from clients worldwide in over 30 countries. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

