

### Features

- Onboard Intel® Atom™ D2550 Processor
- Intel® NM10
- Intel® Graphics Media Accelerator Supports DirectX 10, OpenGL 3.0
- DDR3 800/1066 SODIMM x 2, Max. 4GB
- VGA, 18/24-bit LVDS, DVI, Dual Independent Display
- Dual Gigabit Ethernet
- COM x 5 (RS-232 x 4, RS-232/422/485 x 1)
- USB2.0 x 6, SATA 3.0Gb/s x 2
- PCI-Express [x1] x 1, Mini PCIe x 1 (Half-size)
- 5.1-CH Audio Channel



### Specifications

System	
Form Factor	Mini-ITX
Processor	Integrated Intel® Atom™ processor D2550 Dual Core 1.86GHz (TDP ≤ 10W)
System Memory	Dual-Channel with two 204-pin DDR3 1066/800 SODIMM, up to 4 GB
Chipset	Intel® NM10
Graphics	Intel® Graphics Media Accelerator 3650 (Gfx frequency 690MHz/DX10.1)
I/O Chipset	ITE IT8783F
Ethernet	Realtek 8111E for 10/1000/1000Base-TX, RJ-45 x 2
BIOS	AMI BIOS
Wake On LAN	Yes
Watchdog Timer	Yes
H/W Status Monitoring	Supports Power Supply Voltage, Fan Speed and Temperature Monitoring.
Expansion Interface	PCI-Express [x1] x 1; Mini PCIe x 1 (w/half size), SIM x 1
Battery	Lithium battery
Power Requirement	DC 12V, 4-pin ATX x 1
Board Size	6.7"(L) x 6.7"(W) (170mm x 170mm)
Gross Weight	1.1 lb (0.5 Kg)
Operation Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Operation Humidity	5% ~ 95% relative humidity, non-condensing
Display	
Chipset	Intel® Graphics Media Accelerator 3650
Memory	Shared system memory up to 384MB
Resolutions	Up to 1920 x 1200/ 60Hz @ 355MHz for CRT Up to 1440 x 900/ 60Hz @ 18bpp for LVDS Up to 1920 x 1200/ 60Hz for DVI
LCD Interface	18/24-bit LVDS
Video Interface	VGA x 1, DVI-D x 1
I/O	
Storage	SATA 3.0Gb/s x 2
Serial Port	RS-232 x 4, RS-232/422/485 x 1 (RS422/485 is selectable by jumper and BIOS)
Parallel Port	STD/SPP/EPP
USB	USB2.0 x 6, 5 x 2 pin-header for internal x 2, TYPE-A Connector onboard x 4
Digital I/O	Supports 8-bit(Programmable)
PS/2 Port	Keyboard/Mouse x 1
Audio	Line-in, Mic-in, Line-out

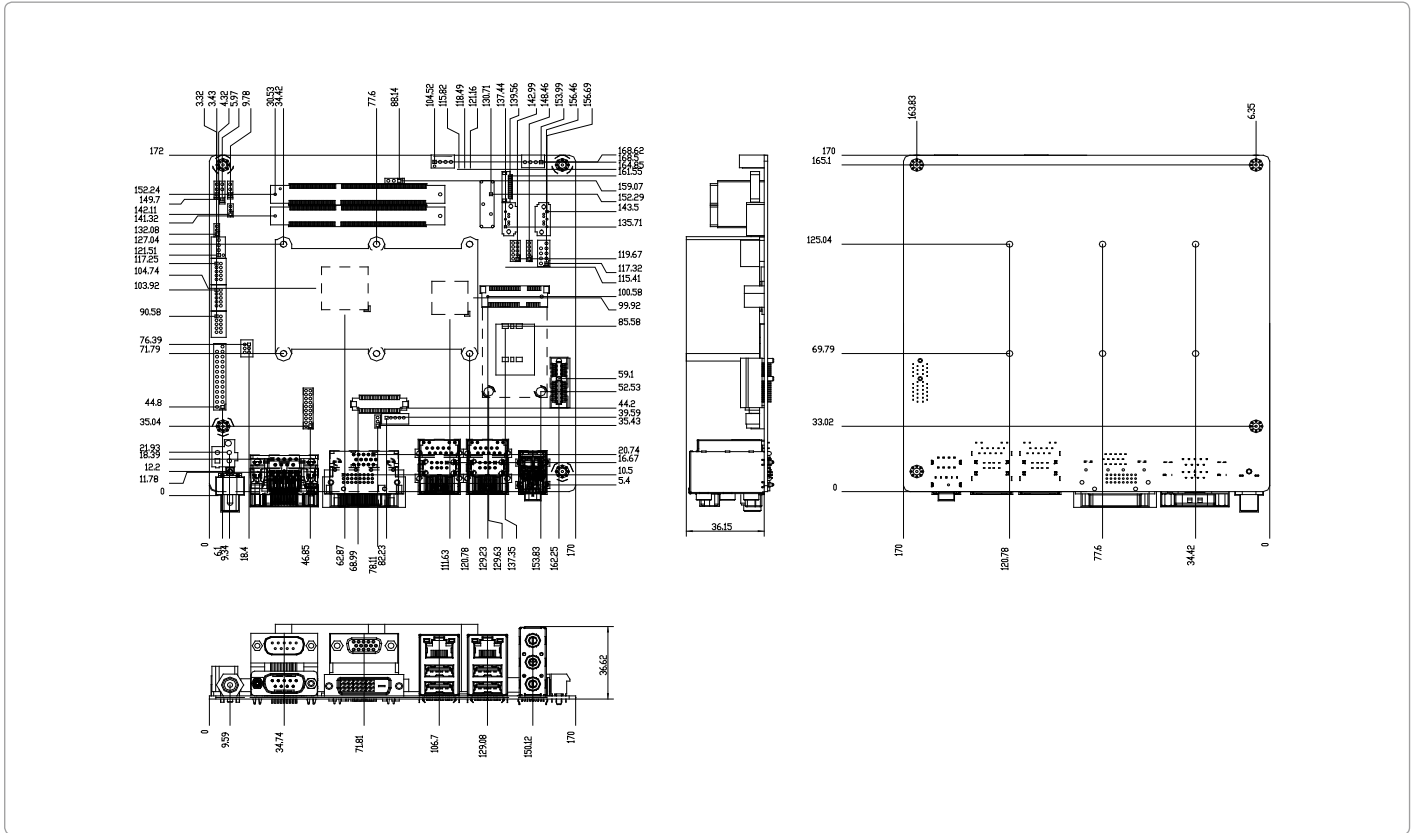
### Packing List

- Cable Set (SATA Cable, SATA Power Cable)
- Metal I/O Bracket
- Product CD
- EMB-CV1

# EMB-CV1

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	RAM	Fan/Fanless	Display	Storage	LVDS	LAN	USB	RS-232	RS-232/422/485	Expansion Slot	Power	Temp.
EMB-CV1-A10	Intel® Atom™ D2550	SODIMM	Fanless	VGA/DVI-D/LVDS	SATA2 x 2	18/24-bit Dual-channel	GbE x 2	6	4	1	Mini PCIe x 1, PCI-E[x1] x 1	+12VDC	0°C ~ 60°C