



Features

- Intel® Atom™ D2550 Processor (1M Cache, 1.86GHz)
- Intel® NM10 Express Chipset
- 1 x DDR3 1066/1333MHz SO-DIMM Support 4GB MAX
- VGA, HDMI, Single-channel 18/24-bit LVDS
- 2 x Realtek RTL8111E PCIe Gigabit Ethernet
- 2 SATA II, 1 Mini PCI-e, 6 RS-232 (5V/12V), 8 USB, 8-bit GPIO
- DC-in +12V



Specifications

System

CPU	Onboard Intel® Atom™ D2550 Processor (1M Cache, 1.86GHz)
BIOS	AMI 16MBit SPI BIOS
System Chipset	Intel® NM10 Express Chipset
I/O Chip	Winbond W83627UHG
System Memory	One 204-pin DDR3 1066/1333MHz SO-DIMM Socket, Supports Up to 4GB Max
Watchdog Timer	Reset : 1 to 255 sec/min per step
H/W Status Monitor	Monitoring Temperature, Voltage and Cooling Fan Status with Auto Throttling Control
Expansion	1 x Mini PCI-e Socket *Mini PCI-e and mSATA SSD Switch Through Jumper

I/O

MIO	2 x SATA II, 2 x SATA Power, 1 x LPT, 1 x PS2 Keyboard, 1 x PS2 Mouse
Serial Port	6 x RS-232 (Pin9 with 5V/12V)
USB	8 x USB 2.0/1.1
GPIO	8-bit General Purpose I/O for DI and DO

Display

Chipset	Integrated Intel® Graphics Media Accelerator 3650 (Gfx freq @ 640MHz) Support DX9
Resolution	VGA/HDMI Display: 1920 x 1200 LVDS: 1440 x 900
Dual Display	LVDS + VGA, VGA + HDMI, HDMI + LVDS
LCD Interface	Single-channel 18/24-bit LVDS

Audio

Audio Codec	Realtek ALC661 HD Audio Decoding Controller
Audio Interface	Mic-in, Line-out Support On-board S/PDIF Input/Output
Audio Amplifier	Realtek ALC105 Stereo Class-D 3W x 2

Ethernet

Chipset	2 x Realtek RTL8111E PCI-Express Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environmental

Power Requirement	DC-in +12V
Power Type	ATX Mode
Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
Operating Humidity	0 ~ 90% Relative Humidity, Non-condensing
Size (L x W)	6.69" x 6.69" (170mm x 170mm)
Weight	1.058lbs (0.48kg)

Ordering Information

EMX-CDD-A1R

Intel® Atom™ D2550 Processor Mini ITX Motherboard with Intel® NM10 Express Chipset and VGA, LVDS, HDMI, Line-out, Mic-in, 2 GbE, 1 Mini PCI-e, 2 SATA II, 2 SATA Power, 6 RS-232, 8 USB 2.0, 1 LPT, 1 PS2 KB, 1 Mouse, DC-in +12V, w/SATA Cable, CD Driver