



Features

- Onboard Intel® Atom™ D2550 CPU (N2600 for Option)
- Intel® ICH10-R Chipset
- Two 204-pin DDR3 SODIMM Socket Supports Up to 4GB DDR3 800/1066 SDRAM
- 1 x 24-bit Dual-channel LVDS (eDP to LVDS)
- 1 HDMI, 1 VGA
- HD Audio-out + Mic-in + Line-in + Front Audio + AMP
- Dual Gigabit Ethernet
- 1 PCI, 1 Mini PCIe, 1 mSATA (Supports on The 2nd Mini PCIe)
- 4 SATA II, 6 COM (5V/12V), 7 USB, 8-bit GPIO
- TPM 1.2 (Optional)
- RAID 0, 1, 5, 10

Embedded System

Qseven Module

COM Express /ETX/XTX

3.5" SBC

EPIC

5.25" SBC

ATX

Micro ATX

Mini ITX

Nano ITX

Rack Mount System

Mini ITX System

Peripherals

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Specifications

System

CPU	Onboard Intel® Atom™ D2550 CPU (1M Cache, 1.86GHz) (N2600 for Option)
BIOS	AMI 16Mbit SPI BIOS
System Chipset	Intel® ICH10-R Chipset
I/O Chip	ITE8783 + FINTEK F81214
System Memory	Two 204-pin DDR3 SODIMM Socket Supports Up to 4GB DDR3 800/1066 SDRAM
SSD	1 x mSATA Supports on The 2 nd Mini-PCIe
Watchdog Timer	H/W Reset : 1 to 255 sec/min per step
H/W Status Monitor	Monitoring System Temperature, Voltage with Auto Throttling Control
TPM	TPM 1.2 (Optional)
Buzzer	Buzzer Onboard
Expansion	1 PCI, 1 Mini PCIe, 1 mSATA (Supports on The 2 nd Mini PCIe)
RAID	RAID 0, 1, 5, 10

I/O

MIO	2 External (COM1, RS-232/422/485; COM2, RS-232), 4 Internal (COM3, RS-232 with 5V/12V selected by Jumper, COM4~6, RS-232)
USB	7 USB 2.0 (4 Rear, 3 Internal)
DIO	8-bit General Purpose I/O for 4-bit DI and 4-bit DO

Display

Chipset	Cederview Integrated Graphics
Resolution	VGA: 1920 x 1200 HDMI: 1920 x 1200 eDP to LVDS Translator 1920 x 1080
Dual Display	LVDS + VGA, VGA + HDMI, HDMI + LVDS

Audio

Chipset	Azalia Realtek ALC269
	Build-in 2W Audio Amplifier on Chip
Audio Interface	Mic-in, Line-in and Line-out, Speaker-out

Ethernet

Chipset	2 x Realtek 8111E Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environmental

Power Requirement	DC +12V
Power Type	AT /ATX Mode (Selectable by Jumper)
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	1.031lbs (0.47kg)

Ordering Information

EMX-CDV-D255-A2R

Intel® Atom™ Processor D2550 Mini ITX Motherboard with Intel® ICH10-R Chipset

EMX-CDV-N26-A1R

Intel® Atom™ Processor N2600 Mini ITX Motherboard with Intel® ICH10-R Chipset