



Features

- Onboard Intel® Atom™ D2550/ N2800/ N2600
- 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, 2 Mini PCIe
- 4 SATA II, 6 COM (5V/ 12V), 7 USB, 8-bit GPIO
- TPM 1.2 (Optional)
- RAID 0, 1, 5, 10

Intel® ICH10-R	HDMI	2 GbE	1 PCI	2 Mini PCIe
4 SATA II	6 COM	7 USB	8-bit GPIO	RAID

- 1 Embedded System
- 2 Oseven Module
- 3 ETX/XTX COM Express
- 4 3.5" SBC
- 5 EPIC
- 6 5.25" SBC
- 7 ATX
- 8 Micro ATX
- 9 Mini ITX
- 10 Nano ITX
- 11 ACP
- 12 Rack Mount System
- 13 Mini ITX System
- 14 Peripherals
- 15 Index

Specifications

System

• CPU	Onboard Intel® Atom™ D2550 (N2800/ N2600 for Option)
• BIOS	AMI 16Mbit SPI BIOS
• System Chipset	Intel® ICH10-R
• I/O Chip	ITE8781 + FINTEK1214
• 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 (Option)
• 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 x PCI, 2 x Mini PCIe
• RAID	RAID 0, 1, 5, 10 Supported

I/O

• MIO	2 External (COM1, RS-232; COM2, RS-232/422/485), 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

Audio

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

Display

• Chipset	Cederview Integrated Graphics
• Resolution	VGA/ HDMI Display: 1920 x 1600, eDP to LVDS Translator 1920 x 1080
• Dual Display	LVDS + VGA, VGA + HDMI, HDMI + LVDS

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	0.88lbs (0.4Kg)

Ordering Information

• EMX-CDV

Intel® Atom™ Cedarview-D Mini ITX Motherboard with Intel® ICH10-R Chipset