



Features

- Intel® Atom™ D2550 1.86GHz CPU
- Intel® NM10 Express Chipset
- One 204-pin SODIMM Up to 4GB DDR3 1066 SDRAM
- Rich I/O, 1 VGA, 5 USB, 1 SIM Card Slot, 1 Swappable HDD, 1 Audio, 1 12-bit GPIO, 1 SMBUS, 2 COM, 2 PS/2 for KB & MS, 2 Knockouts Antenna Mounting, 5 LAN
- Supports 2-pair LAN Bypass
- Expansion Slot Supporting 2 Mini PCIe Slot
- Front Access Swappable 2.5" Drive Bay, SIM Card
- Rugged Design for Vibration & Shock Protection, Cable Less Design
- Wide Range DC Power Input from 12 ~ 26V
- Service Window, Easy to Install mSATA, Memory and Mini PCIe Module

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

Board	EBM-CDVS + AUX-M02
CPU	Onboard Intel® Atom™ D2550 1.86GHz CPU
BIOS	AMI 16Mbit SPI BIOS
System Chipset	Intel® NM10 Express Chipset
I/O Chip	Nuvoton W83627DHG-P
System Memory	One 204-pin DDR3 SODIMM Socket Up to 4GB DDR3 800/1066 SDRAM
Storage	1 x 2.5" Drive Bay, 1 x mSATA
Watchdog Timer	Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion Interface	2 x Mini PCIe Socket (mSATA on 1 st , SIM Card Slot on 2 nd)

External I/O

COM	2 x COM (Can be set as RS-232/422/485 by BIOS)
LAN	5 x LAN Supports 2-pair LAN Bypass
VGA	1 x VGA
Audio Port	Mic-in, Line-in, Line-out
GPIO	6-bit GPI and 6-bit GPO
USB Port	5 x USB 2.0 (Rear 4; Front 1)
PS/2	2 x PS/2 for KB & MS
SIM	1 x SIM Card Slot
SMBUS	1 x SMBUS
Antenna	2 Knockouts for Antenna Mounting (Options to Add WiFi & 3G)

Display

Chipset	Intel® Cedarview Integrated Graphics
Resolution	CRT Mode: 1920 x 1200 @ 60Hz

Audio

Audio Chipset	Realtek ALC892 Supports 5.1-CH Audio
Audio Interface	Line-in, Line-out and Mic-in

Ethernet

LAN Chip	1 x Intel® 82574L Gigabit Ethernet
Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible

Mechanical & Environmental

Power Requirement	+12 ~ +26Vdc
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
Power Mode	AT/ATX (ATX is The Default Setting)
Operating Temperature	-10 ~ 60°C (w/mSATA and 2.5" SSD), Ambient w/Air Flow
Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
Relative Humidity	0% ~ 90% Relative Humidity, Non-condensing
Vibration Protection	With mSATA/SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 1hr/axis
Shock Protection	With mSATA/SSD: 50G, IEC 60068-2-27, Half Sine, 11ms
Certification	CE, FCC Class B
Dimension (W x D x H)	240mm x 170mm x 60mm
Weight	4.4lbs (2Kgs)

Ordering Information

EMS-CDV-255-A1-3R (with AUX-M02 Module)

Fanless Intel® Cedarview Rugged Embedded System with Intel® NM10 Express Chipset and Multi-LAN Module, VGA, SIM Slot, Swappable HDD, Audio, 12-bit GPIO, SMBUS, 2 COM, 2 PS/2 for KB & MS, 2 Knockouts Antenna Mounting, 5 USB, 5 LAN