



## EMS-CDV-Marine

Intel® Atom™ Processor D2550 Fanless Rugged Embedded System with 4 COM Isolations



- > 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, 1 LAN, 1 SIM Card Slot, 1 Swappable HDD, 1 Audio, 1 12-bit GPIO, 1 SMBUS, 6 COM, 2 PS/2 for KB & MS, 2 Knockouts Antenna Mounting, 5 USB
- > Expansion Slot Supporting 2 Mini PCIe Slot
- > Front Access Swappable 2.5" Drive Bay, SIM Card
- > Support 2.5kv Isolation RS-232 and RS-422/485
- > Rugged Design for Vibration & Shock Protection, Cable Less Design
- > Fanless Operation from -10 ~ 60°C
- > Wide Range DC Power Input from +10~+27.5V (-10/+30%)
- > IEC EN60945 Certified

### + Spec

System	
<b>Processor</b>	Onboard Intel® Atom™ D2550 1.86GHz CPU
<b>System Chipset</b>	Intel® NM10 Express Chipset
<b>System Memory</b>	One 204-pin DDR3 SODIMM Socket Up to 4GB DDR3 800/1066 SDRAM
<b>I/O Chip</b>	Nuvoton W83627DHG-P
<b>BIOS</b>	AMI 16Mbit SPI BIOS
<b>Watchdog Timer</b>	Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
<b>H/W Status Monitor</b>	Monitoring System Temperature and Voltage with Auto Throttling Control
<b>Board</b>	EBM-CDVS + AUX-M07 + EBM-CDVS DB-B
Expansion	
<b>Expansion</b>	2 x Mini PCIe Socket (mSATA on 1st, SIM Card Slot on 2nd)
Storage	
<b>Storage</b>	1 x 2.5" Drive Bay, 1 x mSATA
I/O	
<b>USB</b>	5 x USB 2.0 (Rear 4; Front 1)
<b>Com Port</b>	6 x COM (Can be set as RS-232/422/485 by BIOS; COM3 ~COM6 Supported 2.5kv Isolation)
<b>Other</b>	6-bit GPI and 6-bit GPO Mic-in, Line-in, Line-out 1 x SIM Card Slot 1 x SMBUS 2 Knockouts for Antenna Mounting(Options to Add WiFi & 3G)
<b>VGA</b>	1 x VGA
<b>PS/2</b>	2 x PS/2 for KB & MS
Display	
<b>Chipset</b>	Intel® Cedarview Integrated Graphics
<b>Resolution</b>	CRT Mode: 1920 x 1200 @ 60Hz
Audio	
<b>Chipset</b>	Realtek ALC892 Supports 5.1-CH Audio
<b>Audio Interface</b>	Line-in, Line-out and Mic-in
Ethernet	
<b>Chipset</b>	1 x Intel® 82574L Gigabit Ethernet
<b>Ethernet Interface</b>	10/100/1000 Base-Tx Gigabit Ethernet Compatible
<b>Lan Port</b>	1 x RJ45
Mechanical & Environmental	
<b>Power Requirement</b>	+10~+27.5Vdc (-10%/+30%)
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI 3.0 Compliant
<b>Power Type</b>	AT/ATX (ATX is The Default Setting)
<b>Operating Temp</b>	-10 ~ 60°C (w/mSATA and 2.5" SSD), Ambient w/Air Flow
<b>Storage Temp</b>	-40 ~ 75°C (-40 ~ 167°F)
<b>Weight</b>	4.4lbs (2Kgs)
<b>Vibration Test</b>	With mSATA/SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 1hr/axis
<b>Shock Test</b>	With mSATA/SSD: 50G, IEC 60068-2-27, Half Sine, 11ms
<b>Dimensions</b>	240mm x 170mm x 60mm (W x D x H)
<b>Relative Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
Certifications	
<b>Certification Information</b>	CE, FCC Class B, IEC EN60945

### + Ordering

EMS-CDV-255-A1-8R (With AUX-M07 & EBM-CDVS DB-B)

Fanless Intel® Cedarview Rugged Embedded System with Intel® NM10 Express Chipset and Multi-COM Module, VGA, LAN, SIM Slot, Swappable 2.5" Drive bay, Audio, 12-bit GPIO, SMBUS, 2 PS/2 for KB & MS, 2 Knockouts Antenna Mounting, 5 USB, 6 COM

