



## EMS-CDV-HDMI

Intel® Atom™ Processor D2550 Fanless Rugged Embedded System with HDMI

- > Onboard Intel® Atom™ D2550 BGA Processor
- > Intel® NM10 Express Chipset
- > One 204-pin SODIMM Socket Up to 4GB DDR3 1066MHz SDRAM
- > Rich I/O, 1 VGA, 1 HDMI, 3 LAN, 1 SIM Card Slot, 1 Swappable HDD, 1 Mic-In, 1 Line-In, 1 Line-Out, 1 12-bit GPIO, 1 SMBUS, 4 COM, 2 PS/2 for KB & MS, 2 Knockouts Antenna Mounting, 5 USB
- > Dual Display, VGA + HDMI
- > Expansion Slot Supports 2 Mini PCIe Slot
- > Rugged Design for Vibration & Shock Protection
- > Fanless Operating from -10 ~ 60°C
- > Wide Range DC Power Input from 12 ~ 26V
- > Service Window, Easy to Install mSATA, Memory and Mini PCIe Module

### + Spec

System	
<b>Processor</b>	Intel® Atom™ D2550 2-Core 1.86GHz processor
<b>System Chipset</b>	Intel® NM10 Express Chipset
<b>System Memory</b>	1 x 204-Pin DDR3 1066MHz SO-DIMM up to 4 GB
<b>Watchdog Timer</b>	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
<b>H/W Status Monitor Board</b>	Monitoring System Temperature and Voltage with Auto Throttling Control EBM-CDVS + EBM-BYTS DB-A
Expansion	
<b>Expansion</b>	2 x Mini PCIe
Storage	
<b>Storage</b>	1 x 2.5" Drive Bay 1 x mSATA
I/O	
<b>USB</b>	5 x USB 2.0
<b>COM Port</b>	4 x RS-232/422/485 (BIOS)
<b>Other</b>	1 x SIM Card Slot 1 x SMBus 2 x PS2/ KB & MS 2 x Knockouts for Antenna Mounting
<b>DIO</b>	1 x 12bit GPIO
Display	
<b>Chipset</b>	Intel® Cedarview Integrated Graphics Supports dual display
<b>Resolution</b>	VGA: Max. resolution 1920x1200@ 60Hz HDMI: Max. resolution 1920x1200@ 60Hz
Audio	
<b>Chipset</b>	Realtek ALC892
<b>Audio Interface</b>	Mic-In, Line-In and Line-Out
Ethernet	
<b>Chipset</b>	1 x Intel® 82574L 2 x Intel® I211AT
<b>Ethernet Interface</b>	10/100/1000 Base-Tx GbE compatible
<b>LAN Port</b>	3 x RJ-45
Mechanical & Environmental	
<b>Operating Temp</b>	(w/SSD, mSATA), ambient w/ air flow -10°C ~ 60°C (14°F ~ 140°F) (w/HDD), ambient w/ air flow 0°C ~ 45°C (32°F ~ 113°F)
<b>Storage Temp</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Operating Humidity</b>	0% ~ 90% Relative Humidity, Non-condensing
<b>Construction</b>	Aluminum + Metal + Plastic
<b>Mounting Kit</b>	Wall Mount kit (Standard) VESA Mount kit (Optional)
<b>Dimension (L x W x H)</b>	9.45" x 6.69" x 2.36" (240mm x 170mm x 60mm)
<b>Vibration Test</b>	With SSD/mSATA : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
<b>Shock Test</b>	With SSD/mSATA : 50Grms, IEC 60068-2-27, Half Sine, 11ms
Certifications	
<b>Certification Information</b>	CE FCC Class B
Software Support	
<b>OS Information</b>	Win XP Win 7 Linux
Power Requirement	

<b>Power Connector</b>	Lockable DC Jack
<b>Power Requirement</b>	+12V ~ +26V TVS component for surge protection
<b>ACPI</b>	Single Power ATX Support S0, S3, S4, S5 ACPI3.0 Compliant
<b>Power Mode</b>	AT/ATX (ATX is default setting)
<b>Adapter</b>	Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 60W Adapter (12V @ 5A Adapter) AC-DC Adapter

#### Ordering

EMS-CDV-255-A1-6R  
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