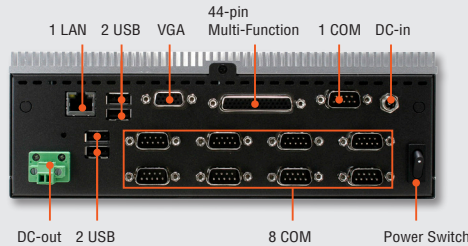




LPT Port
LVDS Port
USB
SIM Card Slot
Swappable 2.5" Drive Bay



1 LAN
2 USB
VGA
44-pin Multi-Function
1 COM
DC-in
DC-out
2 USB
8 COM
Power Switch

Features

- Onboard Intel® Atom™ D2550 1.86GHz CPU
- Intel® NM10 Express Chipset
- One 204-pin SODIMM Up to 4GB DDR3 1066 SDRAM
- Rich I/O, VGA, LVDS, LAN, LPT, SIM Slot, Swappable HDD, Audio, 12-bit GPIO, SMBUS, DC-Out, 2 PS/2 for KB & MS, 5 USB, 10 COM, 2 Knockouts Antenna Mounting
- COM3 ~ COM10 Supports Isolation Protection
- Expansion Slot Supporting 2 Mini PCIe Slot
- Front Access Swappable 2.5" Drive Bay, 1 SIM Card
- Fanless Operation from -10 ~ 60°C
- Wide Range DC Power Input from 12 ~ 28Vdc
- Rugged Design for Vibration & Shock Protection
- Service Window, Easy to Install mSATA, Mini PCIe Module and Memory

Specifications

System

• Board	EBM-CDVS + AUX-M03
• 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	10 x RS-232 (COM1 ~ COM4 Can be Set as 422/485 by BIOS); COM3 ~ COM10 Supports Isolation Protection.
• LAN	1 x RJ-45
• Antenna	2 Knockouts for Antenna Mounting (Options to Add WiFi & 3G)
• 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 (Front 1; Rear 4)
• PS/2	2 x PS/2 for KB & MS
• SIM	1 x SIM Card Slot
• SMBUS	1 x SMBUS
• DC Output	2-Pin Phoenix (Voltage is Identical with DC-Input)
• LPT	1 x DB-25
• LVDS	1 x Dual-channel 18/ 24-bit LVDS

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

Environment & Mechanical

• Power Requirement	+12 ~ +28Vdc (Lockable DC Jack)
• 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)	231mm x 160mm x 80mm
• Weight	7.7lbs (3.5Kgs)

Ordering Information

• ERS-CDVE-255-A1-1R

Fanless Intel® Atom™ D2550 Rugged Embedded System with Intel® NM10 Express Chipset