

AV200-X3

MIL-STD-810G Rugged Computer with
Intel® Core i7- 7820EQ,
NVIDIA GTX950M GPU, 4 Independent
DP, Mini PCIe, 9V to 36V DC-in,
Extended Temp -40 to 60°C



Safety information

Electrical safety

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.
- Before connecting or removing signal cables from the motherboard, ensure that all power cables are unplugged.
- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Make sure that your power supply is set to the correct voltage in your area.
- If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your local distributor.

Operation safety

- Before installing the motherboard and adding devices on it, carefully read all the manuals that came with the package.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter any technical problems with the product, contact your local distributor

Statement

- All rights reserved. No part of this publication may be reproduced in any form or by any means, without prior written permission from the publisher.
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- All product specifications are subject to change without prior notice

Revision History

Revision	Date (yyyy/mm/dd)	Changes
Version 1.0	2020/01/02	Initial release

Packing list

- AV200-X3 Rugged Fanless System
- CD (Driver + Quick Installation Guide)
- Bracket Ear x 2
- Screw for fixing Bracket Ear

Ordering information

Model Number	Description
AV200-X3	MIL-STD-810G Rugged Computer with Intel® Core i7- 7820EQ, NVIDIA GTX950M GPU, 4 Independent DP, Mini PCIe, 9V to 36V DC-in, Extended Temp -40 to 60°C



If any of the above items is damaged or missing, please contact your local distributor.

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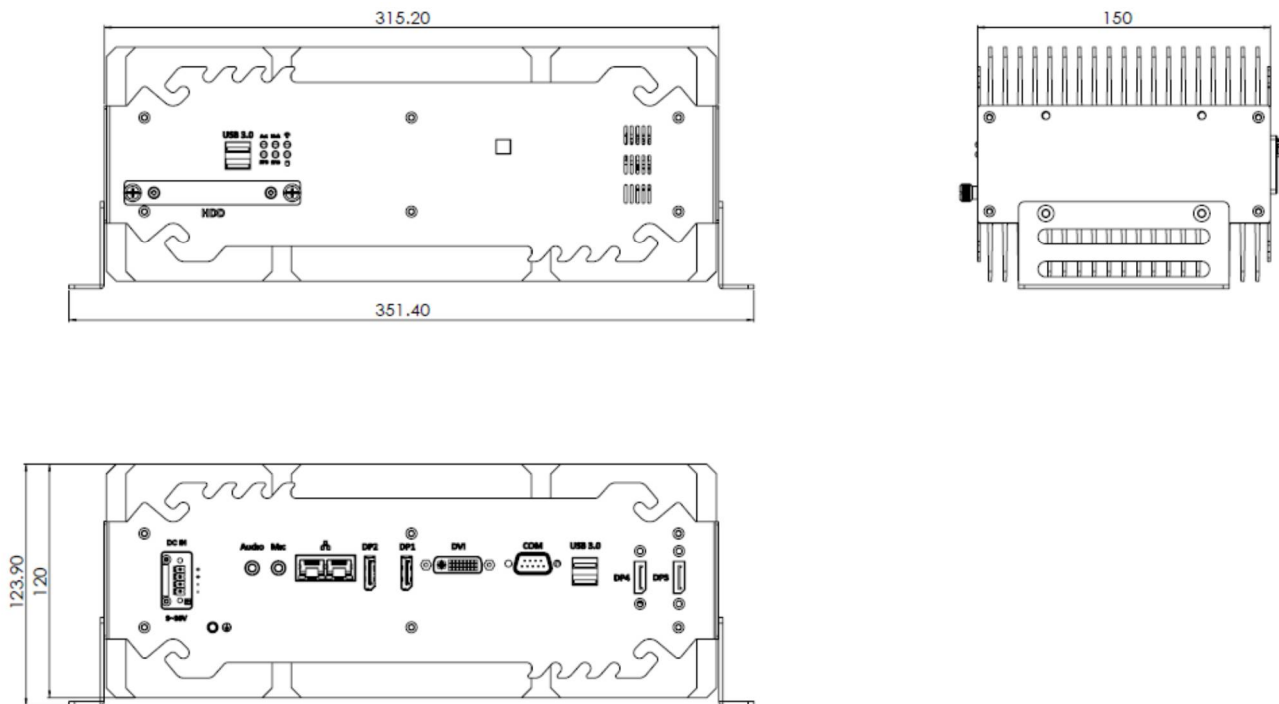
Chapter 1: Product Introduction

1.1 Key Features

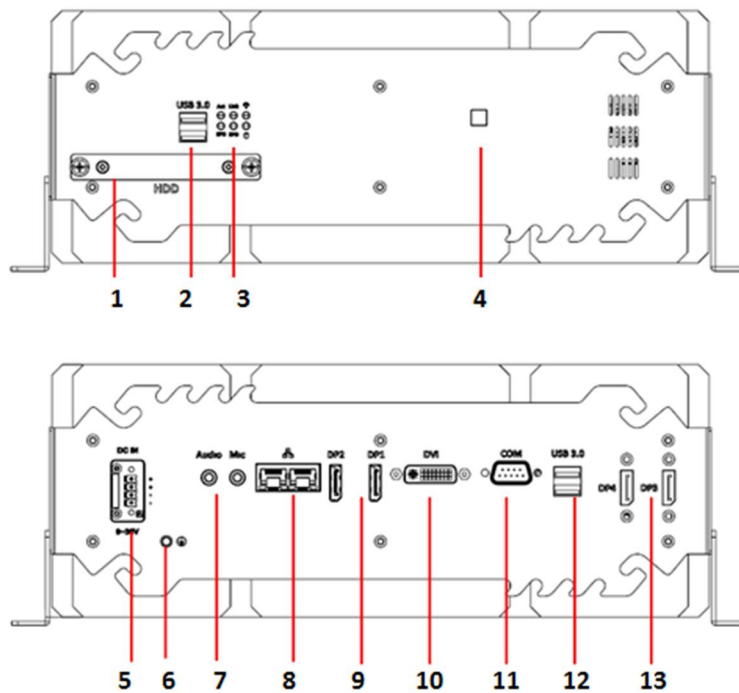
System	
CPU	Intel® 7th Gen Core™ i7-7820EQ (Frequency 3.0GHz, Turbo Boost up to 3.7GHz),Quad-Core, 8 Thread Support, 8MB SmartCache
Memory Type	Up to 32GB SDRAM
BIOS	AMI® BIOS
Storage Device	Onboard uSSD SATAIII 64GB, 1 x mSATA
Front I/O	
Power Button	1 x Power Button with LED backlight
USB	2 x USB 3.0
SSD Tray	1 x 2.5" SSD Tray
Power LED	1 x Red LED
HDD LED	1 x Green LED
LAN LED	Link/Activity/Speed LED
Rear I/O	
DisplayPort	4
DVI-D	1
COM	1 x RS-232/422/485
USB	2 x USB 3.0
Audio	1 x Mic In, 1 x Line Out
Ethernet	2 x RJ45
System Power DC-IN	1 x 4-pin terminal block, 9~36V DC input
Ground Screw	1
Mechanical & Environment	
Power Requirements	9V to 36V DC-in
Dimension (W x H x D)	315.2 x 150 x 120 mm (12.40" x 5.9" x 4.72")
Operating Temp.	-40 to 60°C (ambient with 0.7m/s airflow)
Storage Temp.	-40 to 85°C
Relative Humidity	5% to 95%, non-condensing

* Specifications are subject to change without notice*

1.2 Dimensions



1.3 Panel Component



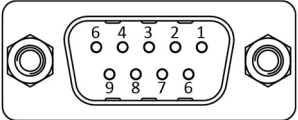
1	SSD Tray
2	2 x USB 3.0
3	Indicator LED
4	1 x Power Button with Indicator LED
5	1 x DC-IN 9-36V (4-pin terminal block)
6	1 x Ground Screw

7	1 x MIC-In, 1 x Line-Out
8	2 x RJ45 (GbE)
9	2 x DisplayPort (Form Intel i7-7820EQ)
10	1 x DVI-D
11	1 x COM
12	2 x USB3.0
13	2 x DisplayPort (Form MXM)

Chapter 2: Jumpers and Connectors Locations

COM: RS232

PIN	DEFINITION	PIN	DEFINITION
1	DCD1#_OPTO	6	DSR1#_OPTO
2	RXD1_OPTO	7	RTS1#_OPTO
3	TDX1_OPTO	8	CTS1#_OPTO
4	DRT1#_OPTO	9	COM1P9SEL
5	GND		



DC-IN: 12~24V DC-in

Pin	Definition
1	+9~36V
2	+9~36V
3	GND
4	GND

