



LAND



SEA



AIR

# AV200

INTEL 7TH GEN.  
CORE™ i7-7820EQ NVIDIA GTX950M  
GPU MIL-STD FANLESS RUGGED  
SYSTEM COMPUTER



## POWER AUTOMATION COMPUTER

- MIL-STD 810G Compliance
- 7th Generation Intel® Core™ i7-7820EQ KabyLake Processor
- Up to 32GB DDR4 SDRAM
- Onboard uSSD SATAIII 64GB
- NVIDIA GTX950M Independent Displays by 2 x DP
- 2 x mPCIe expansion slot (One supports

# Specifications

## SYSTEM

|                            |                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High Performance Processor | Intel® 7th Gen Core™ i7-7820EQ (Frequency 3.0GHz, Turbo Boost up to 3.7GHz),<br>Quad-Core, 8 Thread Support, 8MB SmartCache.<br>Build-in HD Graphics 630 for excellent 3D, Turbo Boost Technology 2.0, VPro and Hyper-Threading support. |
| Memory type                | Up to 32GB DDR4 SDRAM                                                                                                                                                                                                                    |
| Chipset                    | Intel® QM175 PCH providing integrated USB 3.0 and supporting 7th generation<br>Intel® Core™ processor families                                                                                                                           |
| Expansion Slot             | 1 x Full-size mPCIe (w/ SIM card and mSATA supported)<br>1 x Half-size mPCIe                                                                                                                                                             |

## DISPLAY

|              |                              |
|--------------|------------------------------|
| Display Port | Resolution up to 3840 x 2160 |
| GPU          | NVIDIA GTX950M               |
| DVI-         | Resolution up to 1920 x 1200 |

## STORAGE

|       |                                                          |
|-------|----------------------------------------------------------|
| uSSD  | Onboard uSSD SATAIII 64GB                                |
| mSATA | 1 x mSATA Solid State Disk (SSD) - up to 512GB Capacity. |

## ETHERNET

|          |                                                             |
|----------|-------------------------------------------------------------|
| Ethernet | 2 x Intel Gigabit Ethernet LAN Interfaces (10/100/1000Mbps) |
|----------|-------------------------------------------------------------|

## REAR I/O

|              |                                               |
|--------------|-----------------------------------------------|
| Display Port | 4 x DisplayPort connectors                    |
| DVI-         | 1 x DVI-I connector                           |
| Ethernet     | 2 x RJ45 Gigabit Ethernet LAN                 |
| Audio        | 2 x 3.5mm Audio Jacks (1 x MIC, 1 x Line-Out) |
| Serial Port  | 1 x DB9 connector (RS-232/422/485)            |
| USB Port     | 2 x USB3.0 standard-A connectors              |
| DC-IN        | 1 x 4P Rugged Terminal connector              |

## FRONT I/O

|                                       |                                                                                                                                                                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Button                                | 1 x Power Button                                                                                                                                                                                                                                                                        |
| Indicator LED                         | Power, HDD, LAN (Link/Active/Speed)                                                                                                                                                                                                                                                     |
| <b>FRONT I/O</b>                      |                                                                                                                                                                                                                                                                                         |
| USB Port                              | 2 x USB3.0 standard-A connectors                                                                                                                                                                                                                                                        |
| HDD Tray                              | 1 x 2.5"HDD Tray                                                                                                                                                                                                                                                                        |
| <b>APPLICATIONS, OPERATING SYSTEM</b> |                                                                                                                                                                                                                                                                                         |
| Applications                          | Commercial and Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing, Process Control, Intelligent Automation and manufacturing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions.<br>Used in all aspects of the military. |
| Operating System                      | Windows 8 , Windows 8.1 , Windows 10<br>Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20                                                                                                                                                                                                |
| <b>PHYSICAL</b>                       |                                                                                                                                                                                                                                                                                         |
| Dimension (W x D x H)                 | 315.2 x 150 x 120 mm                                                                                                                                                                                                                                                                    |
| Weight                                | 6 Kg (13.23 lbs)                                                                                                                                                                                                                                                                        |
| Chassis                               | Aluminum Alloy, Corrosion Resistant                                                                                                                                                                                                                                                     |
| Finish                                | Anodic aluminum oxide (Color Black)                                                                                                                                                                                                                                                     |
| Cooling                               | Natural Passive Convection/Conduction. No Moving Parts                                                                                                                                                                                                                                  |
| Ingress Protection                    | Dust Proof (Similar to IP50)                                                                                                                                                                                                                                                            |
| <b>ENVIRONMENTAL</b>                  |                                                                                                                                                                                                                                                                                         |
| Operating Temperature                 | -20 to 60°C (ambient with air flow)                                                                                                                                                                                                                                                     |
| Storage Temperature                   | -40 to 70°C                                                                                                                                                                                                                                                                             |
| Relative Humidity                     | 10% to 90%, non-condensing                                                                                                                                                                                                                                                              |
| Reliability                           | No Moving Parts; Passive Cooling Designed & Manufactured using ISO 9001/2000 Certified Quality Program                                                                                                                                                                                  |
| EMC                                   | CE and FCC compliance                                                                                                                                                                                                                                                                   |
| Green Product                         | RoHS, WEEE compliance                                                                                                                                                                                                                                                                   |

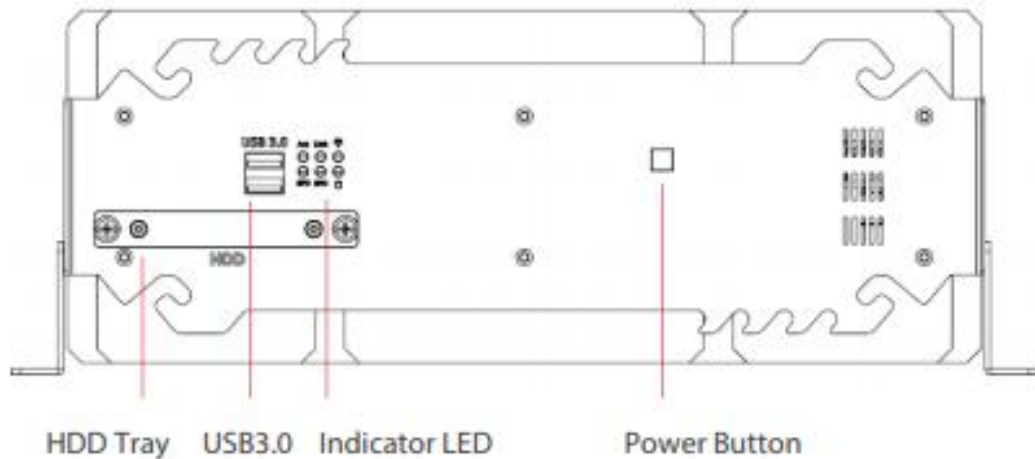
## Ordering Information

AV200

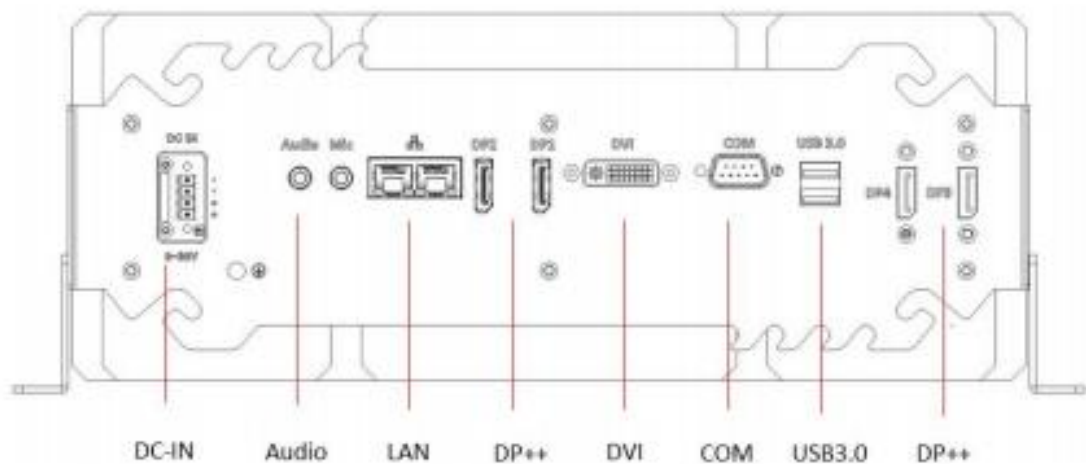
MIL-STD-810G Rugged Computer with Intel® Core i7- 7820EQ,  
NVIDIA GTX950M GPU, 4 Independent DP, Mini PCIe,  
9V to 36V DC-in, Extended Temp -40 to 60°C

## Appearance

Front IO



Back IO



## Dimension

