



LAND



SEA



AIR

# SR700-X4D

MIL-STD-810 IP65 Rugged Computer



- MIL-STD810 Thermal, shock, vibration, Humidity / EMI / EMC conditions
- PCIe/104 Rugged Expansion Slot for Stackable MXM GPU
- Intel 9<sup>th</sup> Gen Coffee Lake(H)<sup>®</sup> Xeon<sup>®</sup> ,Core <sup>™</sup> Processor 45W/25W TDP
- NVIDIA Quadro<sup>®</sup> RTX A2000(CUDA 2560, GDDR6-8GB)
- 4 x DDR4 DIMM up to 128GB
- 2 x Full size Mini PCIe
- 1x NVMe M.2 2280

# Specifications

## System

|                      |                                                                                                                                                                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High Power Processor | Core i7-9850HE (6 Cores/12 Threads, 9M Cache, up to 4.40 GHz), 45W<br>Core i7-9850HL (6 Cores/12 Threads, 9M Cache, up to 4.10 GHz), 25W<br>Xeon E-2276ME (6 Cores/12 Threads, 12M Cache, up to 4.50 GHz), 45W<br>Xeon E-2276ML (6 Cores/12 Threads, 12M Cache, up to 4.20 GHz), 25W |
| Chipset              | CM246                                                                                                                                                                                                                                                                                |
| memory type          | 4 x DDR4 DIMM up to 128GB                                                                                                                                                                                                                                                            |
| Graphic              | Intel® UHD Graphics 630                                                                                                                                                                                                                                                              |
| GPU                  | NVIDIA® GTX1050 Ti (CUDA 768 GDDR5-4GB) or<br>NVIDIA QUADRO A2000 (CUDA 2560. GDDR6-8GB)                                                                                                                                                                                             |
| Ethernet             | I219LM + I210iT                                                                                                                                                                                                                                                                      |
| Audio codec          | ALC887                                                                                                                                                                                                                                                                               |
| Power Type           | DC 9V~36V, Options for MIL-STD 461 18V~36V                                                                                                                                                                                                                                           |
| Storage              | 2 x SSD                                                                                                                                                                                                                                                                              |

## Expansion slot

|          |                                                    |
|----------|----------------------------------------------------|
| M.2      | 1 x M.2 (M-key, type:2280, SATA/PCIe 3.0x4 NVMe)   |
| Mini-PCI | 2 x Full size (PCIe x1,USB 2.0 and micro SIM Card) |

## FRONT I/O

|    |                                       |
|----|---------------------------------------|
| X1 | DC-IN with DTL38999 connector         |
| X2 | 2 x USB2.0 with DTL38999 connector    |
| X3 | 1 x 1GbE LAN with DTL38999 connector  |
| X4 | 1 x 1GbE LAN with DTL38999 connector  |
| X5 | 1 x RS232/485 with DTL38999 connector |
| X6 | 1 x mDP with DTL38999 connector       |

## Applications, Operating System

|                  |                                                                                                                                                                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applications     | Commercial and Military Platforms Requiring Compliance to MIL-STD-810 Embedded Computing, Process Control, Intelligent Automation and manufacturing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions. Used in all aspects of the military |
| Operating System | Windows 10 32/64Bit<br>Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20                                                                                                                                                                                                            |

## Physical

|                    |                                                         |
|--------------------|---------------------------------------------------------|
| Dimension          | 360 x 230 x 86 mm                                       |
| Weight             | 8.6 Kg ( 18.9 lbs )                                     |
| Chassis            | Aluminum Ally                                           |
| Heatsink           | Aluminum Alloy, Corrosion Resistant                     |
| Finish             | Anodic aluminum oxide ( Color Iron gray )               |
| Cooling            | Natural Passive Convection/Conduction. No Moving Parts. |
| Connectors         | IP65 Waterproof connectors                              |
| Ingress Protection | IP65                                                    |

## Mechanical and Environment

|                |                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------|
| Reliability    | No Moving Parts; Passive Cooling.<br>Designed & Manufactured using ISO 9001/2000 Certified Quality Program. |
| Operating Temp | -40°C to 60°C                                                                                               |
| Storage Temp.  | -40°C to 85°C                                                                                               |

## Test Standard

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MIL-STD-810G Test | Method 507.5, Procedure II (Temperature & Humidity)<br>Method 516.6 Shock-Procedure V Non-Operating (Mechanical Shock)<br>Method 516.6 Shock-Procedure I Operating (Mechanical Shock)<br>Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration) Method 514.6 Vibration Category 20/Operating (Category 20 & 24, Vibration) Method 501.5, Procedure I (Storage/High Temperature)<br>Method 501.5, Procedure II (Operation/High Temperature)<br>Method 502.5, Procedure I (Storage/Low Temperature)<br>Method 502.5, Procedure II (Operation/Low Temperature)<br>Method 503.5, Procedure I (Temperature shock) |
| EMC               | CE and FCC compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Green Product     | RoHS, WEEE compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Ordering Information

### **SR700-X4DT**

Xeon E-2276ML, DDR4-4GB, 128GB SSD, NVIDIA GTX1050Ti, 9V~36V (DTL38999)

### **SR700-X4DTE**

Xeon E-2276ML, DDR4-4GB, 128GB SSD, NVIDIA GTX1050Ti, 18V~36V, MIL-461/1275(DTL38999))

### **SR700-X4DE**

Xeon E-2276ML, DDR4-4GB, 128GB SSD, NVIDIA A2000, 18V~36V, MIL-461/1275(DTL38999))

### **SR700-X4IE**

i7-9850HL, DDR4-4GB, 128GB SSD, NVIDIA A2000, 18V~36V MIL-461/1275 (DTL38999)

### **SR700-X4ITE**

i7-9850HL, DDR4-4GB, 128GB SSD, NVIDIA GTX1050Ti, 18V~36V MIL-461/1275 (DTL38999)

### **SR700-X4I**

i7-9850HL, DDR4-4GB, 128GB SSD, NVIDIA A2000, 9V~36V (DTL38999)

### **SR700-X4IT**

i7-9850HL, DDR4-4GB, 128GB SSD, NVIDIA GTX1050Ti, 9V~36V (DTL38999)

## Dimensions & Appearance

