SR100-XV

MIL-STD Rugged Computer with 9th/8th Gen. Intel® Xeon®/Core™ Processor

MIL-STD Rugged Computer

- Intel® Core™ Xeon E-2276ML (6 Cores, 4.2GHz) / i7-9850HL (6 Cores, 4.1GHz)
- SO-DIMM up to 128 GB RAM
- NVMe Up to 2TB SSD
- Multi-Displays by 1 x DP, 1 x HDMI
- 1 x B key (Type: 2280, 3042) + 1 x E Key (Type: 2230)
- 2 x PCIe Intel® Gigabit Ethernet
- 4 x USB 3.0, 1 x COM ports
- MIL STD 461 18V-36V DC- DC
- Optional for 9V-36V DC-DC
- Extended Temperature -40°C to 70°C

1. Specification

System	
CPU	Intel® Xeon E-2276ML (6 Cores, 4.2GHz, 25W) Intel® Core™ i7-9850HL (6 Cores, 4.1GHz, 25W)
Chipset	Intel® CM246 PCH
Memory type	4 x DDR4 SO-DIMM up to 128 GB
Expansion Slot	M.2 B key (type 2242 & 2280)
Storage Device	NVMe Up to 2TB
Ethernet Chipset	Intel® I210IT & i217LM GbE
Front I/O	
Power Button	1 with back light
Power LED	1
HDD LED	1
LAN LED	2 sets
USB	2 x USB 3.0
POWER	1 x Terminal Block
Rear I/O	
DisplayPort	1 x 20-pin DP connector (female)
HDMI	1 x 20 pin HDMI
Ethernet	2 x RJ45 ports
Audio	Mic-in, Line-out
COM	1x RS-232/422/485 ports, Jumper-selectable (DB9 male) **Serial Signals** RS232: DCD-, RXD, TXD, DTR-, GND, DSR-, RTS-, CTS- RS422: TX-, RX+, TX+, RX-, GND RS485- 4W: TxD+, TxD-, RxD+, RxD-, GND RS485- 2W: DATA-, DATA+, GND
Audio	1 x MIC, 1 x Line out
USB	4 x USB 3.0

Display

Display Interface	Display port interface x 2: 20-pin display port connectors (female); resolution up to 3840 x 2160@60 Hz
Graphics Controller	Onboard Intel® UHD 630 graphics

OS support list

Windows	Windows 8 x32/x64、Windows 8.1 x32/x64、Windows 10 x32/x64
Linux	Fedora 20、Ubuntu 13.04、Ubuntu 13.10、Ubuntu 14.04

Mechanical and Environment

Power Requirement	9V to 36V DC-in, AT/ATX mode MIL-STD 461 18V~36V
Dimension	250 x 149 x 76 mm
Operating Temp.	-40°C to 70°C(ambient with air flow)
Storage Temp.	-40°C to 85°C
Relative Humidity	5% to 95%, non-condensing

Test Standard

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