SR100

PERFECTRON

Intel® QM87 MIL-STD Fanless Rugged System with Intel® Core™ i7 Haswell Processor, 9V to 36V DC-in, Wide Temp. -40 ~ 70°C

EXTENDED TEMPERATURE

KEY FEATURE

- MIL-STD 810G Compliance
- 4th Generation Intel® Core™ i7 Haswell processors (BGA)
- XR-DIMM up to 8 GB RAM
- Onboard uSSD SATAIII up to 64 GB
- Multi-Displays by 2 x DP, 1 x DVI-I
- 2 x mPCIe Expansion slot (One Co-Layout with mSATA)
- 2 x PCIe Intel® Gigabit Ethernet
- 4 x USB 3.0, 1 x COM ports
- 9V~36V DC-in with power delay on/off
- Extended Temperature -40~+70 °C

it's perfect !

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Main Features

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- 9V~36V DC-in with power delay on/off
- Extended Temperature -40 to 70 °C

▶ Specifications

System

CPU Type	Intel® Core™ i7 Haswell , BGA type Core i7-4700EQ (4C x 2.4/1.7 GHz), 6M Cache (47W)
Chipset	Intel® QM87 PCH
Memory	1 x DDR3 1600 XR-DIMM up to 8 GB with ECC
Expansion Slot	2 x mPCIe (1 x colay with mSATA)
Touch	PenMount 6000
Storage Device	1 x SATA III 6 Gb/s 2.5" SSD/HDD

Front I/O

Power Button	YES
Power LED	YES
HDD LED	YES
LAN LED	YES
Reset Button	YES
USB	2 x USB 3.0
Power	1 x Terminal Block

Rear I/O

DisplayPort	2
DVI-I	1
Ethernet	2 x RJ45
COM	1 x RS232/422/485 with 5V/12V selectable
USB	2 x USB 3.0
Audio	1 x MIC, 1 x Line out

Display

Display Interface	DVI-D interface x 1: 29-pin DVI-I connectors (female); resolution up to 1920 x 1200@60 Hz Display port interface x 2: 20-pin display port connectors (female); resolution up to 3840 x 2160@60 Hz
Graphics Controller	Onboard Intel® HD 4600 graphics

Mechanical and Environment

Power Requirement	9V to 36V DC-in, AT/ATX mode supports with power delay on/off
Dimension (W x H x D)	250 x 149 x 76 mm
Operating Temp.	-40 to 70°C (ambient with airflow)
Storage Temp.	-40 to 85°C
Relative Humidity	5% to 95%, non-condensing

Serial Interface & Signals

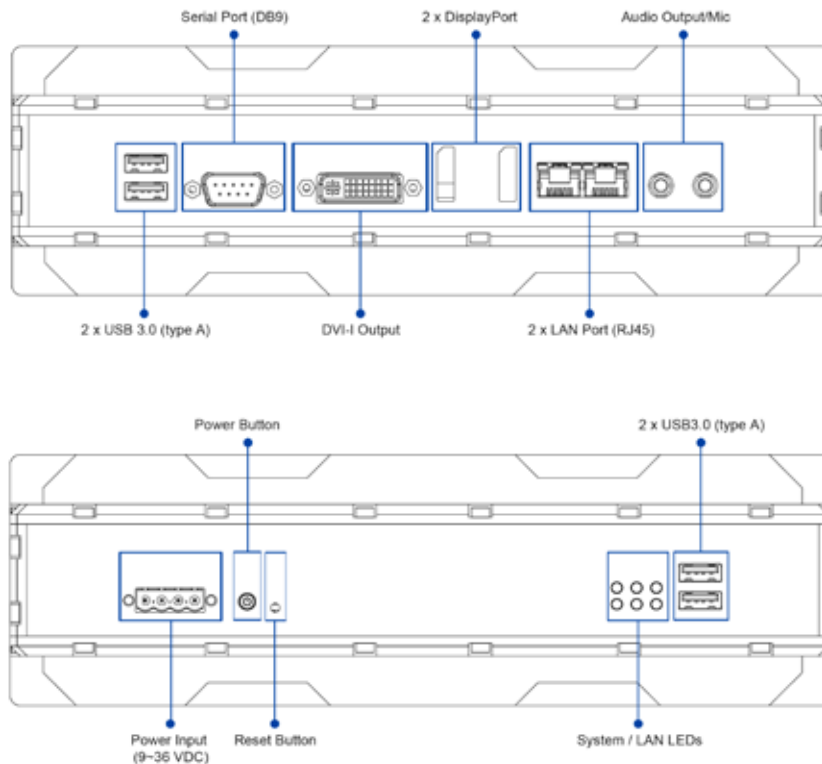|	
Serial Standards	1x RS-232/422/485 ports, Jumper-selectable (DB9 male)
RS-232	TxD, RxD, DTR, DSR, RTS, CTS, DCD, GND
RS-422	TxD+, TxD-, RxD+, RxD-, GND
RS-485-4w	TxD+, TxD-, RxD+, RxD-, GND
RS-485-2w	Data+, Data-, GND

Standards and Certifications

MIL-STD-810G Test
Method 507.5, Procedure II (Temperature & Humidity)
Method 514.6, Procedure I (Category 20 & 24, Vibration)
Method 516.6, Procedure I (Mechanical Shock)
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

*All specifications and photos are subject to change without notice.

▶ Appearance

Serial Port (DB9) 2 x DisplayPort Audio Output/Mic

2 x USB 3.0 (type A) DVI-I Output 2 x LAN Port (RJ45)

Power Button 2 x USB3.0 (type A)

Power Input (9~36 VDC) Reset Button System / LAN LEDs

▶ Dimensions

149.0

250.0

76.0
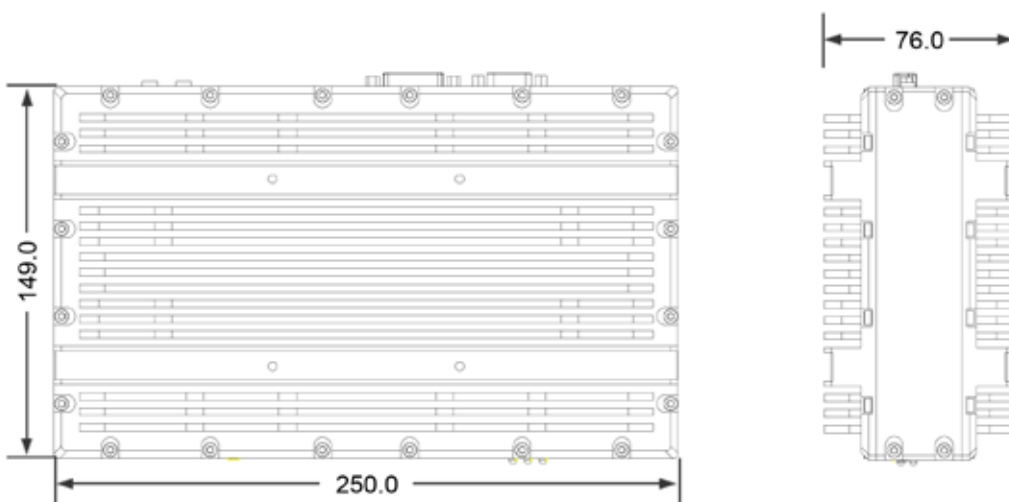
▶ Packing List

- SR100 MIL-STD Fanless Rugged System
- Driver CD

▶ Optional Accessories

- XR-DIMM up to 8 GB RAM
- MLC mSATA up to 256GB

▶ Ordering Information

Modules

Model Number	Description
SR100-ET	Intel® QM87 MIL-STD Fanless Rugged System with Intel® Core i7 Haswell Processor, 9V to 36V DC-in, Wide Temp -20 to 60℃
SR100-UT	Intel® QM87 MIL-STD Fanless Rugged System with Intel® Core i7 Haswell Processor, 9V to 36V DC-in, Wide Temp -40 to 70℃

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