

SR108-X3

MIL-STD-810G 19" RACKMOUNT FANLESS
COMPUTER WITH INTEL® CORE i7- 8700T



- 8X D1 VIDEO FRAME GRABBER (OPTIONAL)
- INTEL® 4TH GEN. CORE™ INTEL i7-7820EQ (8 CORES, 2.4/3.4 GHz)
- DDR4 UP TO 32GB, STORAGE UP TO 2TB MLC SSD
- MULTI-DISPLAYS BY 2 X DP, 1 X DVI-I
- 2 X MPCIE EXPANSION SLOT
- 4 X INTEL® GIGABIT ETHERNET
- 4 X USB 3.0, 4 X COM PORTS (2X RS232/422/485, 2 X RS232)
- 9V~36V DC-IN WITH POWER DELAY ON/OFF
- EXTENDED TEMPERATURE -40°C TO 60°C

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Extended
Temperature
+60°C
-40°C

SPECIFICATIONS

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High Performance Processor	Intel® 7th Gen Core™ i7-7820EQ (Frequency 3GHz, Turbo Boost Frequency up to 3.7GHz), Quad-Core, 8 Thread Support, 8MB SmartCache. Build-in HD Graphics 4600 for excellent 3D , Turbo Boost Technology 2.0 , VPro and Hyper-Threading support.
Memory	DDR3 1600MHz XR-DIMM up to 8GB ECC SDRAM
Chipset	Intel® QM175
Expansion Slot	2 x Full-size miniPCle
DISPLAY	
Display Port	Resolution up to 3840 x 2160@60Hz
DVI-I	Resolution up to 1920 x 1200@60Hz
STORAGE	
mSATA	mSATA Solid State Disk (SSD). Rugged Industrial NAND Flash mSATA Storage w/ Rugged -40/+85C High Capacity, optional Pre-loaded with Linux or Windows OS. 64 / 128 / 256 / 512GB Innodisk 3MG2-P Series MLC SATA III 6Gb/s Flash SSD, Rated for 520 MB/sec Sequential Read ; 350 MB/sec Write Max.
HDD	1 x 2.5" SSD/HDD Tray
ETHERNET	
Ethernet	4 x Intel Gigabit Ethernet LAN Interfaces (10/100/1000Mbps)
REAR I/O	
DisplayPort	2 x 20Pin External connectors (Female)
DVI-I	1 x 29Pin DVI-I connector (Female)
Ethernet	4 x RJ45 Gigabit Ethernet LAN Interfaces
Audio	2 x 3.5mm Audio Jacks (1 x MIC, 1 x Line-Out)
Serial Port	2 x DB9 connector (RS-232/422/485, jumper select)
USB Port	2 x USB3.0 standard-A connectors
FRONT I/O	
Button	1 x Power Button w/Indicator LED
DC-IN	4P Rugged Terminal connector
Indicator LED	Power, HDD, LAN (Link/Active/Speed)
HDD Tray	1 x 2.5" SSD/HDD Tray
USB Port	2 x USB3.0 standard-A connectors
Serial Port	2 x DB9 connector (RS-232)

APPLICATIONS, OPERATING SYSTEM

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. Used in all aspects of the military.
Operating System	Windows 7 x32/x64, Windows 8 x32/x64, Windows 10 x32/x64 Fedora 20 , Ubuntu 13.04 , Ubuntu 13.10 , Ubuntu 14.04

PHYSICAL

Dimension (W x D x H)	255 x149 x 69 mm
Weight	4.5 KG (9.9 LBS)
Chassis	Aluminum Alloy, Corrosion Resistant.
Finish	Anodic aluminum oxide (Color Iron gray)
Cooling	Natural Passive Convection/Conduction. No Moving Parts
Connectors	DC-IN : PHOENIX CONTACT 1776715 RJ45 Ethernet : RTB-19GB9J1A DVI-I : BANGSON DVI02-0123001-T DisplayPort : FOXCONN 3VD21203-H7U0-4 Audio : WTJ-035-67S1A01/ WTJ-035-67S1A02
Ingress Protection	Dust Proof (Similar to IP50)

ENVIRONMENTAL

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)
Operating Temperature	-40 to 60°C (ambient with 0.7m/s airflow)
Storage Temperature	-40 to 85°C
EMC	CE and FCC compliance

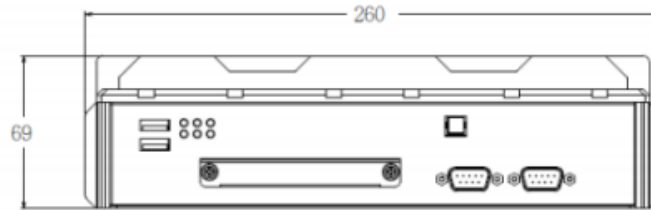
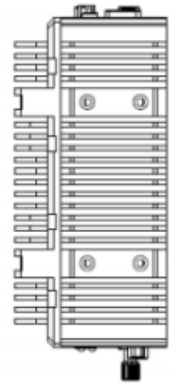
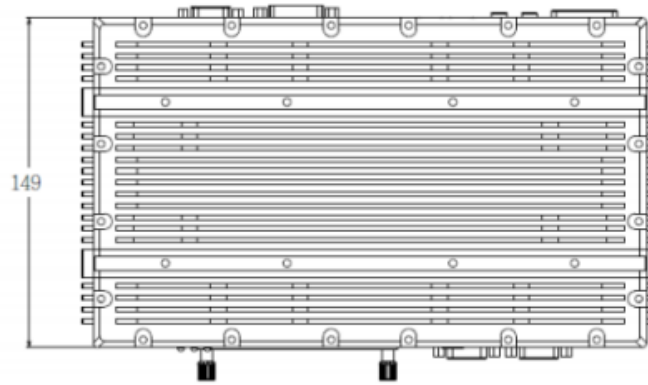
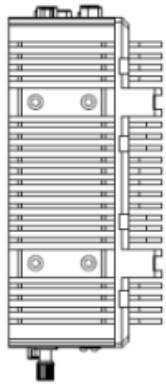
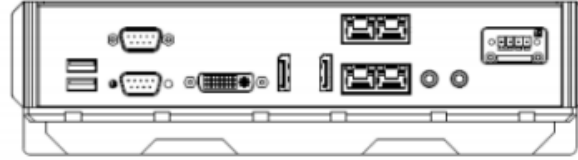
ORDERING INFORMATION
SR10B-X3

MIL-STD-810G RUGGED COMPUTER WITH INTEL® CORE™ I7- 7820EQ, 4 GIGABIT LAN, 4 SERIAL PORT , 9V TO 36V DC-IN, MINI PCIE, HIGH VIBRATION / SHOCK PROTECTION, EXTENDED TEMP. -40~60°C

SR10B-X3, A MIL-STD-810G STANDARD SYSTEM HIGHLIGHTS

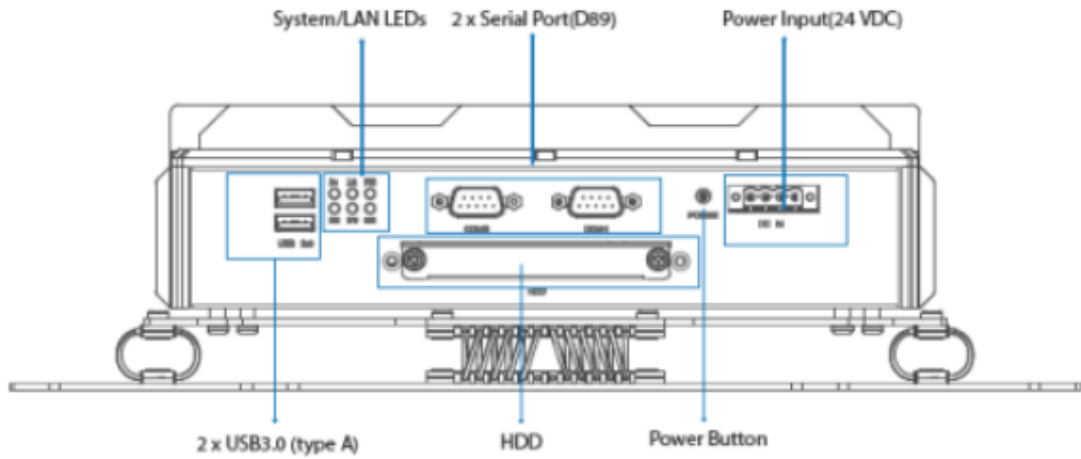
IN ITS 7TH GENERATION KAPYLAKE CORE I7-7820EQ FANLESS SYSTEM WITH EASY ACCESSIBLE WITH SSD STORAGE,RUGGED XR-DIMM RAM, RICH I/O WITH 4 USB 3.0, 4 COM PORT, 2 LAN 3 VIDEO OUTPUT AND MPCIIE EXPANSION SLOT. BESIDES VARIETY OUT-PUTS, PERFECTRON HAS DESIGN AN UNIQUE WIPE ROPE VIBRA-TION ISOLATOR FOR BETTER VIBRATION AND SHOCK RESISTANCE.

DIMENSION



APPERANCE

Front Side



Back Side

