



LAND



SEA



AIR

SR108-X3

MIL-STD VIDEO FRAME
GRABBER COMPUTER



POWER AUTOMATION COMPUTER

- Extended Temp Support -40~60°C
- MIL-STD Vibration, Shock Tolerant
- 8xD1 Video Frame Grabber for option
- Intel i7-7820EQ(4xCores,3.7 Ghz)
- 9V~36V DC-IN



Specifications

SYSTEM

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 type	1 x SAMTEC XR-DIMM™ Rugged Memory connector (BTH-120-01-L-D-A) with Swiss-bit® DDR3 1600MHz XR-DIMM up to 8GB ECC SDRAM
Chipset	Intel® QM175 Chipset providing integrated USB 3.0 and supporting 7th generation Intel® Core™ processor families
Expansion Slot	2 x Full-size miniPCIe (ACES 88911-5204M) ,one co-lay with mSATA for operating system, Rugged -40/+85C High Capacity Military-Grade mSATA. 1 x Onboard SIM Card slot (ASTRON 5190006-007-R) for 3.5G connectivity 1 x FPE connector (SAMTEC SEAF-20-06.0-L-10-2-A-K-TR) 1 x StackPC connector (SAMTEC ASP-129637-03)

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)
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FRONT I/O

Button	Power Button
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)
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REAR I/O

DisplayPort	2 x 20Pin External connectors (Female)
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DVI-I	1 x 29Pin DVI-I connector (Female)
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Ethernet	4 x RJ45 Gigabit Ethernet LAN Interfaces
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Audio	2 x 3.5mm Audio Jacks (1 x MIC, 1 x Line-Out)
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Serial Port	2 x DB9 connector (RS-232/422/485, jumper select)
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USB Port	2 x USB3.0 standard-A connectors
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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.
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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
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PHYSICAL

Dimension (W x D x H)	255 x149 x 69 mm
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Weight	4.5 KG (9.9 LBS)
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Chassis	Aluminum Alloy, Corrosion Resistant
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Finish	Anodic aluminum oxide (Color Iron gray)
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Cooling	Natural Passive Convection/Conduction. No Moving Parts.
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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
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Vibration Isolator	Wire Rope Isolator (Hongyuan GGT 2.1-23/GGT 2.7-25)
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Ingress Protection	Dust Proof (Similar to IP50)
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ENVIRONMENTAL

MIL-STD-810G	Method 507.5, Procedure II (Temperature & Humidity)
Test	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)
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

SR10B-X3

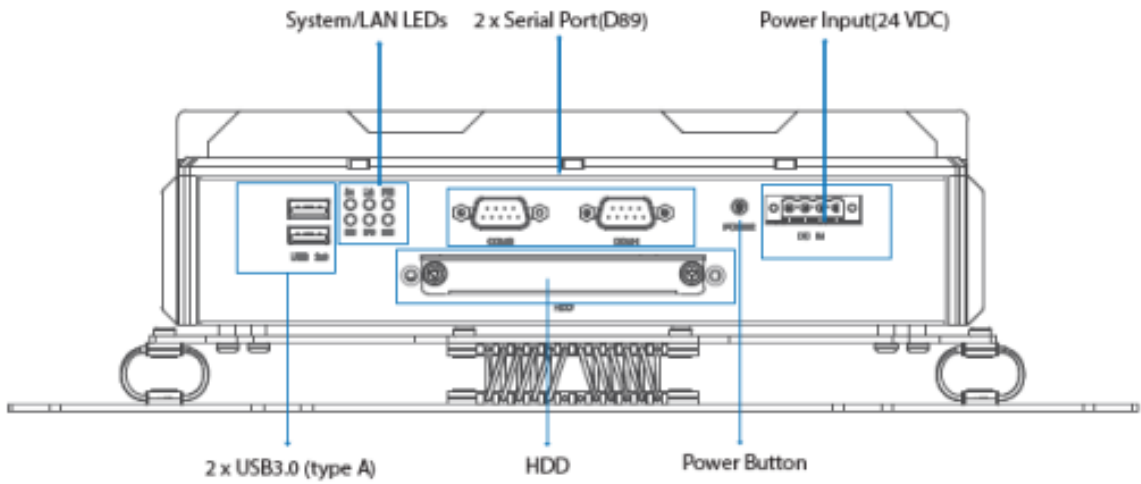
MIL-STD-810G Rugged Computer with Intel® Core™ i7- 7820EQ, 4 Gigabit LAN, 4 Serial port , 9V to 36V DC-in, Mini PCIe, high vibration / shock protection, Extended Temp. -40~60°C

SR10B-X3, a MIL-STD-810G Standard System highlights

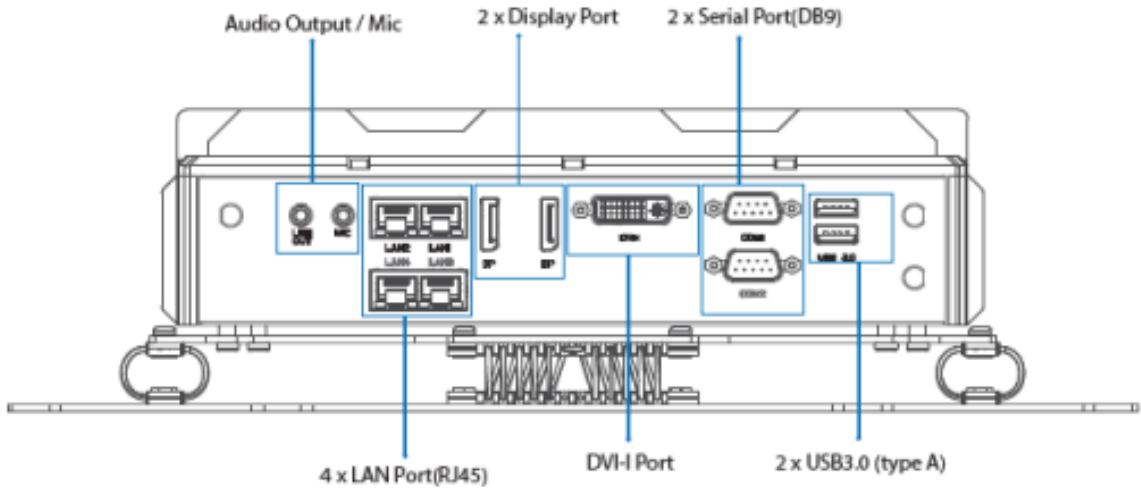
In its 7th Generation KabyLake Core i7-7820EQ Fanless System with easy accessible with SSD storage, rugged XR-DIMM RAM, rich I/O with 4 USB 3.0, 4 Com Port, 2 LAN 3 Video output and mPCIe expansion slot. Besides variety out-puts, PERFECTRON has design an unique Wipe Rope Vibra-tion Isolator for better vibration and shock resistance.

Appearance

Front Side



Back Side



Dimension

