SR200-X3

Intel® 7th Gen. Kabylake ®Core™ i7-7820EQ MIL-STD Fanless Rugged System Computer

Power Automation Computer

- MIL-STD 810G Compliance
- 7th Generation Intel® Core™ i7-7820EQ Kabylake Processor
- Up to 32GB DDR4 RAM
- Onboard uSSD SATAIII up to 64 GB
- NVIDIA®1050Ti CUDA 768 GDDR5-4GB/ GTX 1650 CUDA896 GDDR5-4GB/ GTX 1660S CUDA1408 GDDR6-6GB GPU Independent Displays by 2 x DP

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Specifications

System	
High Performance Processor	Intel® 7th Gen Core™ i7-7820EQ (Frequency 3.0GHz, Turbo Boost Frequency up to 3.7GHz), Quad-Core, 8 Thread Support, 8MB SmartCache. Build-in HD Graphics 530 for excellent 3D, Turbo Boost Technology 2.0, VPro and Hyper-Threading support
Memory type	Up to 32GB DDR4 RAM
Chipset	Intel® QM175 Chipset
Expansion Slot	1 x Full-size mPCIe (w/ SIM card and mSATA supported) 1 x Half-size mPCIe
Display	
GPU	NVIDIA®1050Ti CUDA 768 GDDR5-4GB/GTX 1650 CUDA896 GDDR5-4GB/GTX 1660S CUDA1408 GDDR6-6GB GPU
Display Port	Resolution up to 3840 x 2160@60Hz
DVI-I	Resolution up to 1920 x 1200@60Hz
Storage	
uSSD	Onboard uSSD SATAIII up to 64 GB
mSATA	mSATA Solid State Disk (SSD) - up to 512GB Capacity. 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
Ethernet	
Ethernet	2 x Intel Gigabit Ethernet LAN Interfaces (10/100/1000Mbps)
Rear I/O	
Display Port	2 x 20Pin DisplayPort connectors (Female)
DVI-I	1 x 29Pin DVI-I connector (Female)
Ethernet	2 x RJ45 Gigabit Ethernet LAN Interfaces
Audio	2 x 3.5mm Audio Jacks (1 x MIC, 1 x Line-Out)
Serial Port	1 x DB9 connector (RS-232/422/485)

USB Port	2 x USB3.0 standard-A connectors

Front I/O

Button	1 x Power Button

Front I/O

DC-IN	4P Rugged Terminal connector
Indicator LED	Power, HDD, LAN (Link/Active/Speed)
USB Port	2 x USB3.0 standard-A connectors
DisplayPort	2 x 20Pin DisplayPort connectors (Female)

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 10 Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20

Physical

Dimension	308 x 149 x 76mm
Weight	4.3 Kg (9.47 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

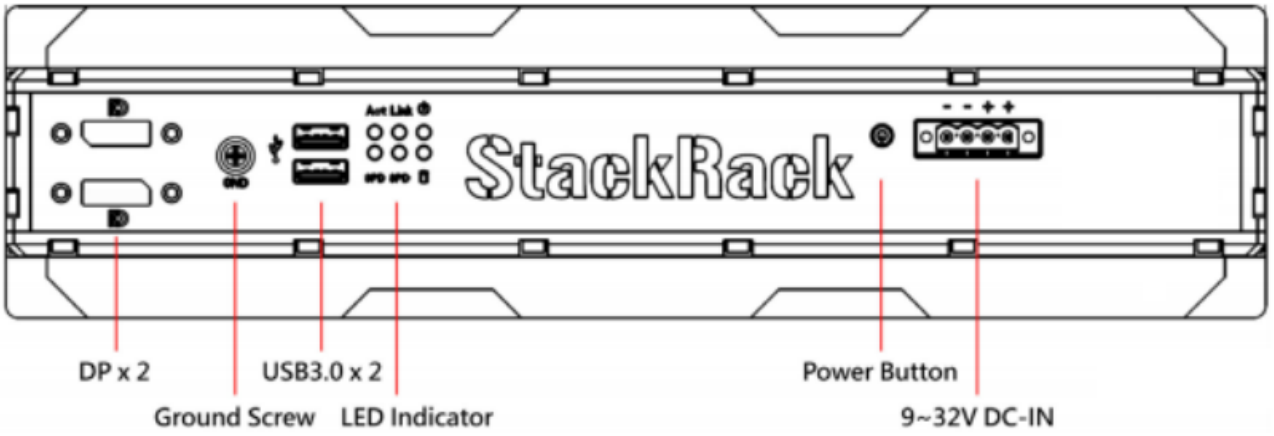
MIL-STD-810G Test	Operating Tests		
	Low Temperature	Method 502.5 Procedure 2	Low temperature: exposure(24h x 3 cycle) at -40℃ min.
	High Temperature	Method 501.5 Procedure 2	Method 501.5, Procedure II, 60°C for 2 hours after temperature stabilization.
	Humidity	Method 507.5 Procedure 2	RH -95%. Test cycles: ten 24-hours , functional test after 5th and 10th cycles
	Vibration	Method 514.6 Category 20	10—500Hz 1.04Grms Test duration: 1 hours x 3 axis (total 3 hours)
	Shock	Method 516.6 Procedure 1	20G, 11mSec, 3 per axis
	Non-Operating Tests		
	Low Temperature Storage	Method 502.5	Low temperature: exposure (24h x 7 cycle) at -40℃ min.
	High Temperature Storage	Method 501.5 Procedure 1	Method 501.5, Procedure I, 71°C for 2 hours after temperature stabilization.
	Vibration	Method 514.6 Category 24	200 to 2000Hz Test duration: One hour per axis; rms = 7.7 gs
	Shock	Method 516.6 Procedure V	40G, 11ms, 3 pluse.
Operating Temp.	-40 to 60°C (ambient with air flow)		
Storage Temp.	-40 to 85°C		
EMC	CE and FCC compliance		

Ordering Information

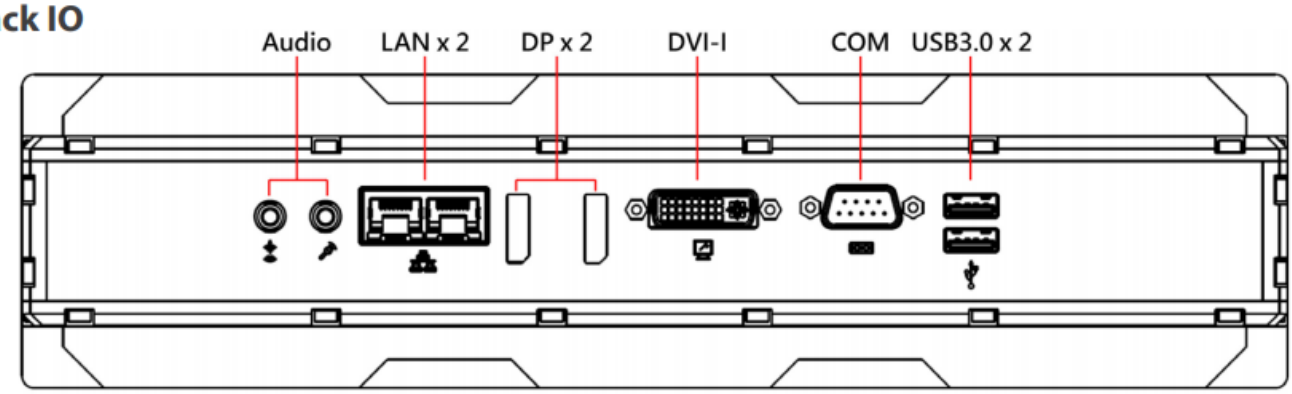
SR200-X3
MIL-STD-810G Rugged Computer with Intel® Core i7-7820EQ,
NVIDIA®1050Ti CUDA 768 GDDR5-4GB/GTX 1650 CUDA896 GDDR5-4GB/GTX 1660S CUDA1408 GDDR6-6GB GPU GPU, 4 Independent DP, Mini PCIe, 9V to 36V
DC-in, Extended Temp -40 to 60°C

Appearance

Front IO



Back IO



Dimensions