



LAND



SEA



AIR

# SR200-X3

INTEL® 7TH GEN. KABYLAKE® CORE™  
I7-7820EQ MIL-STD FANLESS  
RUGGED SYSTEM 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



# 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)
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## 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
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#### FRONT I/O

Button	1 x Power Button
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#### FRONT I/O

DC-IN	4P Rugged Terminal connector
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Indicator LED	Power, HDD, LAN (Link/Active/Speed)
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USB Port	2 x USB3.0 standard-A connectors
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DisplayPort	2 x 20Pin DisplayPort connectors (Female)
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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 10 Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20
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#### PHYSICAL

Dimension	308 x 149 x 76mm
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Weight	4.3 Kg (9.47 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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Ingress Protection	Dust Proof (Similar to IP50)
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**ENVIRONMENTAL**

MIL-STD-810G	Operating Tests	
Test		
	Low Temperature	Method 502.5 Procedure 2 Low temperature: exposure(24h x 3 cycle) at -40°C 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°C 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,

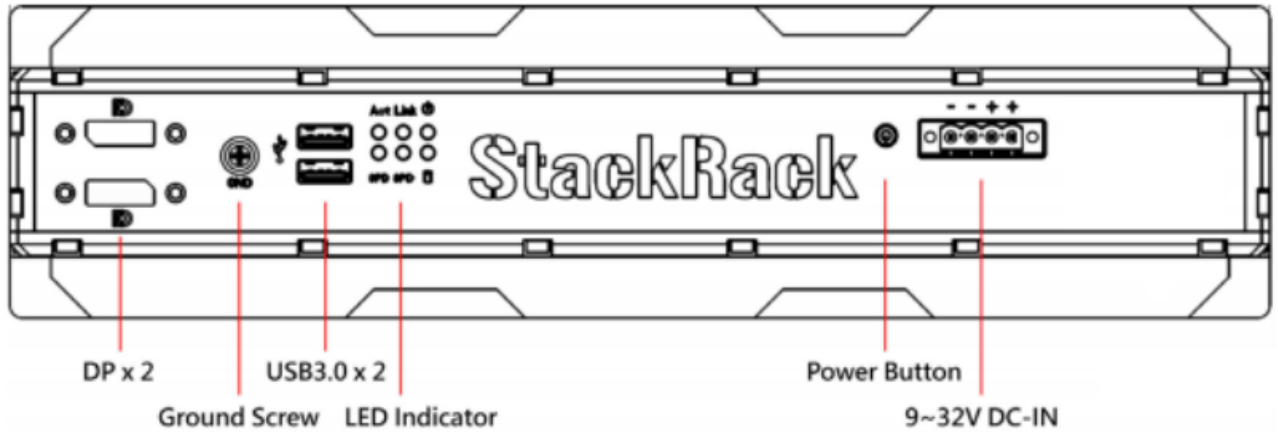
NVIDIA®1050Ti CUDA 768 GDDR5-4GB/GTX 1650 CUDA896 GDDR5-4GB/GTX 1660S CUDA1408

GDDR6-6GB GPU GPU, 4 Independent DP, Mini PCIe, 9V to 36V

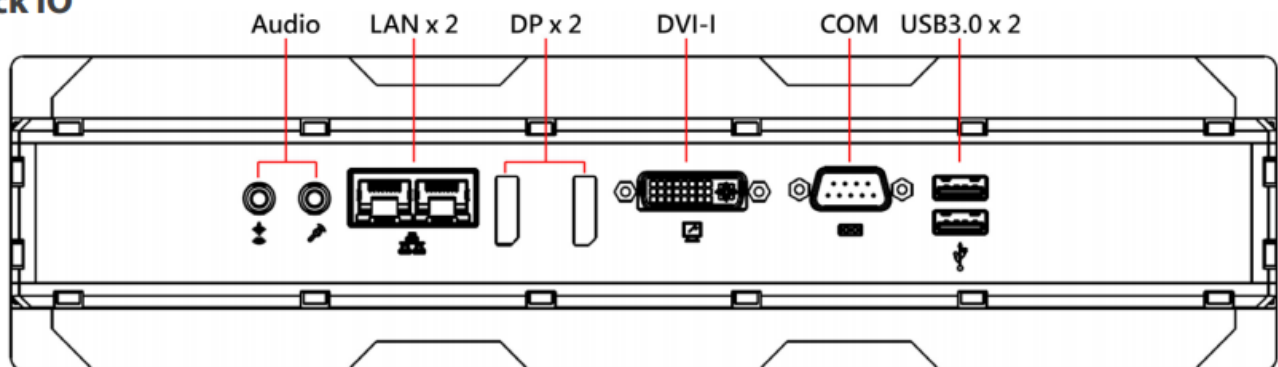
DC-in, Extended Temp -40 to 60°C

# Appearance

## Front IO



## Back IO



# Dimensions

