

SKEUU INTEL[®] 4TH GEN. HASWELL[®] CORE[™] 17-4700EQ NVDIA GT730M GPUMIL-STD FANLESS RUGGED SYSTEM

StackRack



- MIL-STD 810G COMPLIANCE
- 4TH GENERATION INTEL[®] CORE[™] 17-4700EQ
 HASWELL PROCESSOR
- XR-DIMM UP TO 8 GB RAM
- ONBOARD USSD SATAIII UP TO 64 GB
- NVIDIA GT730M INDEPENDENT DISPLAYS BY 4 x DP
- 2 X MPCIE EXPANSION SLOT (ONE CO-LAYOUT WITH MSATA)
- 2 X INTEL[®] GIGABIT ETHERNET
- 4 x USB 3.0, 1 x COM PORT
- 9V TO 36V DC-IN WITH POWER DELAY ON/OFF

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SR200



SPECIFICATIONS

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High Performance Processor	Intel® 4th Gen Core™ i7-4700EQ (Frequency 2.4GHz, Turbo Boost up to 3.4GF Quad-Core, 8 Thread Support, 6MB SmartCache. Build-in HD Graphics 4600 for excellent 3D, Turbo Boost Technology 2.0, VPr and Hyper-Threading support.							
Memory	x SAMTEC XR-DIMM™ Rugged Memory connector (BTH-120-01-L-D-A) with wissbit® DDR3 1600MHz XR-DIMM up to 8GB							
Chipset	Intel® QM87 Chipset providing integrated USB 3.0 and supporting 4th gener Intel® Core™ processor families							
Expansion Slot	2 x Full-size miniPCIe (ACES 88911-5204M), 1 co-lay with mSATA 1 x Onboard SIM Card slot (ASTRON 5190006-007-R) for 3.5G connectivity							
DISPLAY								
GPU	NVIDIA GT730M							
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/D								
DisplayPort	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							
DC-IN	4P Rugged Terminal connector							
Indicator LED	Power, HDD, LAN (Link/Active/Speed)							
USB Port	2 x USB3.0 standard-A connectors							
DisplayPort	4 x 20Pin DisplayPort connectors (Female)							





APPLICATIONS, OPERA	TING SYSTEM
Applications	Commercial and Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing, Process Control, Intelligent Automation and manufactur- ing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions.
	Used in all aspects of the military.
Operating System	Windows 7 , Windows 8 , Windows 8.1 , Windows 10 Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20
PHYSICAL	Obuntu 15.04, Obuntu 15.10, Obuntu 14.04, Fedora 20
Dimension ($W \times D \times H$)	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.
	DC-IN : PHOENIX CONTACT 1776715
Connectors	RJ45 Ethernet : RTB-19GB9J1A DVI-I : BANGSON DVI02-0123001-T
Connectors	DisplayPort : FOXCONN 3VD21203-H7U0-4
	Audio : WTJ-035-67S1A01/ WTJ-035-67S1A02
Ingress Protection	Dust Proof (Similar to IP50)
ENVIRONMENTAL	
	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)
MIL-STD-810G Test	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

SR200-ET

MIL-STD-810G Rugged Computer with $Intel^{\$}$ Core 17-4700EQ, NVIDIA GT730M GPU, 4 Independent DP, Mini PCIE, 9V to 36V DC-IN, Extended Temp -20 to $60^{\circ}C$

SR200-UT

MIL-STD-810G Rugged Computer with $Intel^{\$}$ Core 17-4700EQ, NVIDIA GT730M GPU, 4 Independent DP, Mini PCIE, 9V to 36V DC-IN, Extended Temp -40 to $70^{\circ}C$

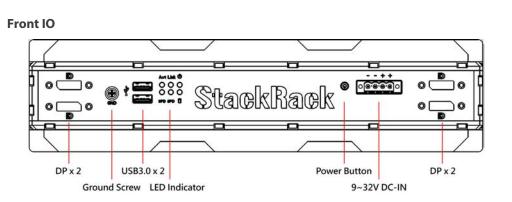
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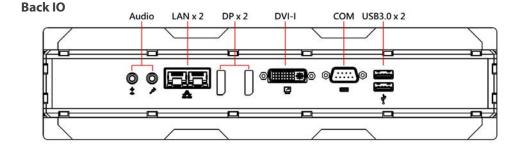




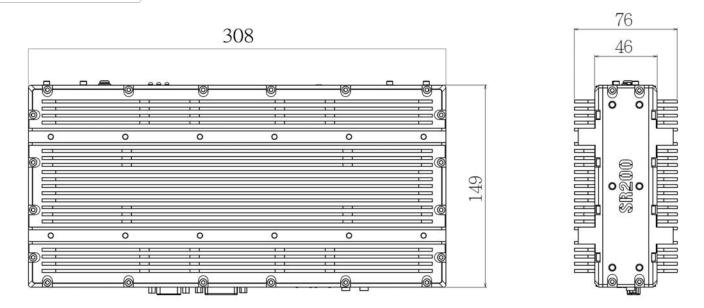
SR200, EBX RUGGED SYSTEM IS A POWERFUL SYSTEM THAT IS DRIVEN BY INTEL[®] 4TH GENERATION HASWELL CPU AND CHIPSET SOLDERING ONBOARD, INTEGRATED WITH NVIDIA GPU GT730M THAT SUPPORTS 4 INDEPENDENT DISPLAYPORT. PROCESSOR 17-4700EQ PLUS INTEL[®] QM87 CHIPSET SUPPORTS CLOCK SPEED 2.4GHz, UP TO 3.4GHz. QUAD CORES, TURBO UP TO 8 CORES TO COPE WITH ENORMOUS DATA COMPUTING.

APPEARANCE





DIMENSIONS



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CPU PERFORMANCE

TEST CONFIGURATION

Ітем	Device Information
CPU Type	Intel [®] Core i7-4700EQ 2.40GHz
PCH	Mobile Intel QM87 Express Chipset
Memory	Swissbit XR-DIMM 4 GB DDR3-1600
port3 SATAII	Innodisk 3ME3 mSATA 64GB
Test Software	Burnin test v6.0, AS SSD Benchmark, Intel Extreme Tuning Utility 4.3.0.11

TEST RESULT



SR200 System - 10 Performance (-40 to 75 C)												
Point	-40°C	25℃ Room temperat ure	40℃	45℃	50℃	55℃	60℃	65°C	70 ℃	75 ℃		
CPU T-J	0	81	86	93	99	99	100	100	100	100		
CPU Die	-15.8	68.1	72.9	81.3	87.6	90.9	93.5	95.4	96.8	97.7		
Heatsink	-27.6	57.3	61	68.7	75.6	78.3	81.5	84.7	86.5	88.6		
∆1=(TJ-Die)	15.8	12.9	13.1	11.7	11.4	8.1	6.5	4.6	3.2	2.3		
$\Delta 2 =$ (Die-Heatsink)	11.8	10.8	11.9	12.6	12	12.6	12	10.7	10.3	9.1		
CPU Frequency	2.79GHz	2.79GHz	2.79GHz	2.79GHz	2.79GHz	2.59GHz	2.39GHz	1.8GHz	1.5GHz	1.09GHz		