

5R700-5G

MIL-STD-810G IP65

RUGGED COMPUTER

INTEL® CORE $^{\text{TM}}$ HASWELL 17 PROCESSOR, NVIDIA GTX950M M12-Type Connectors, Onboard USSD 64GB, 9V to 36V DC-in, Extended Temp. -40~70°C



Extended
Temperature
+70°C
-40°C

- Design for reliability under demanding MIL-STD-810G THERMAL, SHOCK, VIBRATION, HUMIDITY/EMI/EMC CONDITIONS
- HEAVY-DUTY FULLY IP65 RUGGED ALUMINUM CHASSIS WITH M12 CONNECTORS
- 4TH GEN INTEL® CORE™ 17 PROCESSOR
- NVIDIA® GEFORCE GTX950M GRAPHIC
- DDR3L XR-DIMM UP TO 8GB
- ONBOARD USSD SATAIII UP TO 64GB
- 1 x VGA, 2 x GIGABIT ETHERNET, 2 x USB, 2 x COM
- 9V~36V DC-IN
- EXTENDED TEMPERATURE -40 TO 70°C





SPECIFICATIONS

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High Performance Processor	Intel® 4th Gen Core™ i7-4700EQ (Frequency 2.4GHz, Turbo Boost Frequency up to 3.4GHz), Quad-Core, 8 Thread Support, 6MB SmartCache. Build-in HD Graphics 4600 for excellent 3D, Turbo Boost Technology 2.0, VPro and Hyper-Threading support.					
Memory	1 x DDR3L XR-DIMM™ up to 8GB					
Chipset	Intel® QM87 Chipset providing integrated USB 3.0 and supporting 4th generati Intel® Core™ processor families					
Expansion Slot	1 x Full-size mPCle with SIM card holder 1 x Full-size mPCle/mSATA					
DISPLAY						
MXM	NVIDIA® GeForce GTX950M					
VGA	Resolution up to 2048x1536					
STORAGE						
uSSD	Onboard uSSD SATAIII up to 64 GB					
mSATA	1 x mSATA Solid State Disk (SSD) - up to 512GB Capacity.					
ETHERNET						
Ethernet	2 x Intel Gigabit Ethernet LAN Interfaces (10/100/1000Mbps)					
I/O INTERFACE						
VGA	1 x Rugged M12 connector					
USB	1 x Rugged M12 connector (2 x USB 2.0 Ports)					
Serial Port	1 x Rugged M12 connector (1 x RS-232, 1 x RS-485)					
Ethernet	2 x Rugged M12 connectors					
DC-IN	1 x Rugged M12 connector					





APPLICATIONS, OPER	ATING SYSTEM					
Applications	Commercial and Military Platforms Requiring Compliance to MIL-STD-810G Embedded Computing, Process Control, Intelligent Automation and manufactur-					
Applications	ing applications where Harsh Temperature, Shock, Vibration, Altitude, Dust and EMI Conditions. Used in all aspects of the military.					
	Win 7 32/64Bit, Win 8 32/64Bit, Win 8.1 32/64Bit, Win 10 32/64Bit					
Operating System	Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20.					
PHYSICAL	Obultu 15.54, Obultu 15.16, Obultu 14.64, 1 Cuota 26.					
Dimension (W x D x H)	350 x 230 x 76 mm					
Weight	8.6 Kg (18.9 lbs)					
Chassis	Aluminum Alloy, Corrosion Resistant.					
Finish	Anodic aluminum oxide (Color Iron gray)					
Cooling	Natural Passive Convection/Conduction. No Moving Parts.					
Cooling	DC-IN: Phoenix Contact 1424136					
Connectors	Ethernet : Phoenix Contact 1424177					
	VGA : Phoenix Contact 1441833					
Connectors	USB : Phoenix Contact 1424177					
	COM: Phoenix Contact 1424177					
Ingress Protection	IP65					
ENVIRONMENTAL						
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)					
	Method 514.6 Vibration Category 24/Non-Operating (Category 20 & 24, Vibration					
MIL-STD-810G Test	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 (Operation) Figure Temperature) Method 502.5, Procedure I (Storage/Low Temperature)					
	Method 502.5, Procedure I (Operation/Low Temperature)					
	Method 503.5, Procedure I (Operation, Low Temperature)					
	No Moving Parts; Passive Cooling.					
Reliability	Designed & Manufactured using ISO 9001/2000 Certified uality Program.					
EMC.	CE and FCC compliance					
Green Product	RoHS, WEEE compliance					
Green Product	noris, were compliance					

ORDERING INFORMATION

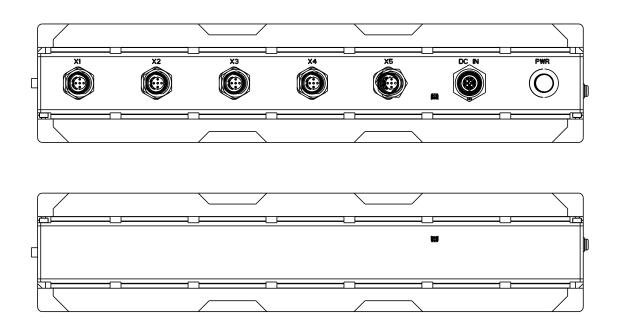
SR700-SG

IP65 MIL-STD-810G RUGGED COMPUTER WITH INTEL® CORE 17- 4700EQ, NVIDIA® GEFORCE GTX950M 9V to 36V DC-IN, Extended Temp -40 to 70°C

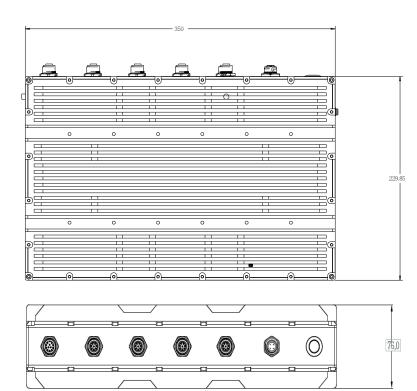


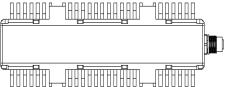
SR700-SG, EBX RUGGED SYSTEM IS A POWERFUL SYSTEM DRIVEN BY INTEL[®] 4TH GENERATION HASWELL CPU AND CHIPSET SOLDERING ONBOARD. PROCESSOR 17-4700EQ PLUS INTEL[®] QM87 CHIPSET SUPPORTS CLOCK SPEED 2.4GHz, UP TO 3.4GHz.

APPEARANCE



DIMENSIONS







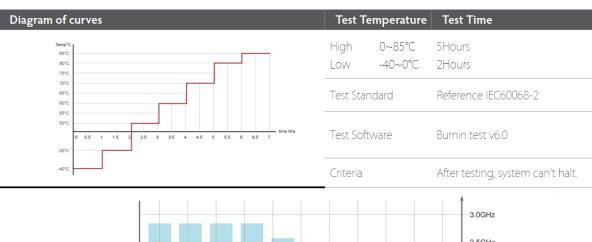
CPU PERFORMANCE

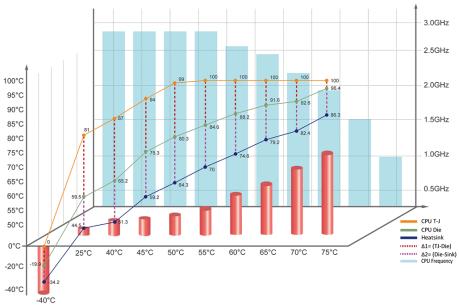
TEST CONFIGURATION

Ітем	DEVICE INFORMATION
CPU Type	Intel® Core i7-4700EQ 2.40GHz
PCH	Mobile Intel QM87 Express Chipset
Memory	Swissbit XR-DIMM 8 GB DDR3L-1600
port3 SATAII	Innodisk 256G SATA SSD
Test Software	Burnin test v6.0, AS SSD Benchmark, Intel Extreme Tuning Utility 4.3.0.11

TEST RESULT

Model	SR700	Test Result	Pacc
Tester	lan Huang	rest result	Pd55





SR700 System - IO Performance (-40 to 75°C)										
Point	-40°C	25°C Room temperature	40°C	45 ℃	50℃	55℃	60℃	65℃	70℃	75℃
CPU T-J	0	81	87	94	99	100	100	100	100	100
CPU Die	-19.9	59.5	65.2	75.3	80.3	84.6	88.2	91.6	92.6	96.4
Heatsink	-34.2	44.5	51.3	59.2	64.3	70	74.6	79.2	82.4	86.3
$\Delta 1 = (TJ-Die)$	19.9	21.5	21.8	18.7	18.7	15.4	11.8	8.4	7.4	3.6
Δ2= (Die-Heatsink)	14.3	15	13.9	16.1	16	14.6	13.6	12.4	10.2	10.1
CPU Frequency	2.79GHz	2.79GHz	2.79GHz	2.79GHz	2.59GHz	2.49GHz	2.19GHz	1.9GHz	1.5GHz	1GHz