

SR10-SCHX2

MIL-STD-810G

RUGGED COMPUTER

INTEL® CORE™ I7 SKYLAKE PROCESSOR
FANLESS RUGGED SYSTEM

9V TO 36V DC-IN, EXTENDED TEMP. -40~60°C



- DESIGN FOR RELIABILITY UNDER DEMANDING MIL-STD-810G THERMAL CONDITIONS
- 6TH GEN INTEL® CORE™ I7 SKYLAKE PROCESSOR (BGA)
- MEMORY UP TO DDR4 32GB
- ONBOARD USSD SATAIII 64 GB
- MULTI-DISPLAYS BY 2 x DP, 1 x DVI-I
- 4 x USB 3.0, 1 x COM (RS232/422/485)
- 1 x LINE-OUT / MIC-IN
- 9V~36V DC-IN
- EXTENDED TEMPERATURE -40 TO 60 °C

SPECIFICATIONS

| SPECIFICATIONS | |
|----------------------------|---|
| High Performance Processor | Intel® 6th Gen Core™ i7-6820EQ (Frequency 2.8GHz, Turbo Boost up to 3.5GHz), 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 | 1 x DDR4 XR-DIMM, 1 x DDR4 SO-DIMM Total up to 32 GB |
| Chipset | Intel® QM170 Chipset supporting 6th generation Intel® Core™ processor families. |
| Expansion Slot | 1 x Full-size miniPCIe/mSATA with SIM card holder 1 x Half-size miniPCIe |
| DISPLAY | |
| Display Port | Resolution up to 3840 x 2160 |
| DVI-I | Resolution up to 1920 x 1200 |
| STORAGE | |
| mSATA | mSATA Solid State Disk (SSD) - up to 512GB Capacity. |
| Onboard SSD | Onboard uSSD 64 GB |
| REAR I/O | |
| DisplayPort | 2 x 20Pin External connectors (Female) |
| DVI-I | 1 x 29Pin DVI-I connector (Female) |
| Ethernet | 2 x RJ45 Gigabit Ethernet LAN (Female) |
| 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 |
| DC-IN | 1 x 4Pin uged terminal block |
| FRONT I/O | |
| Button | Power Button w/cover |
| Indicator LED | Power, HDD, LAN (Link/Active/Speed) |
| USB Port | 2 x USB3.0 standard-A connectors |

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. |
| Operating System | Windows 8 , Windows 8.1 , Windows 10 Ubuntu14.04, Ubuntu 16.04 |

PHYSICAL

| | |
|-----------------------|---|
| Dimension (W x D x H) | 308 x 149 x 58 mm |
| Weight | 2.96 Kg (6.52 lbs) |
| Chassis | Aluminum Alloy, Corrosion Resistant. |
| Finish | Anodic aluminum oxide (Color Iron gray) |
| Cooling | Natural Passive Convection/Conduction. No Moving Parts. |
| Operating Temp. | -40 to 60°C (ambient with air flow) |
| Storage Temp. | -40 to 85°C |
| Relative Humidity | 5% to 95%, non-condensing |

ENVIRONMENTAL

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

SR10-SCHX2

**MIL-STD-810G RUGGED COMPUTER WITH
INTEL® CORE™ I7-6820EQ, μSSD 64GB ONBOARD,
9V TO 36V DC-IN, EXTENDED TEMP. -40~60°C**