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4,654,520	8,078,511
8,901,705	4,346,501
6,805,210	6,688,570



SCHX4

NA AUTONOMOUS DRIVING
FANLESS I9-10900TE



POWER AUTOMATION COMPUTER

- 10th Generation Intel® Core™ i9-10900TE Cometlake-S Processor
- 2x DDR4- up to 64GB
- 2x SSD – RAID 0/1
- FTDI Security on Board
- Multi Display with DisplayPort, HDMI & DVI
- 90V~260V AC/DC or 48V DC Redundant PSU for optional
- HSR/ PRP Ethernet board for Optional

Specifications

SYSTEM

CPU	Intel® 10th Gen Core™ i9-10900TE (Cometlake-S) Processors, 2 x Dual Channel DDR4 2400/2600 MHz, 260-pin SODIMM,AMI® UEFI BIOS CODE
Memory type	Up to 32GB DDR4 RAM
Chipset	Q470

DISPLAY

GPU	Intel® UHD Graphics
Display Port	DisplayPort 1.4, DP++ Max resolution up to 4096x2160@60Hz
HDMI	HDMI 2.0a, Max resolution up to 4096x2160@60Hz
VGA	1 (resolution up to 1920x1200)

STORAGE

Storage Device	1 x PCIe x 16 (Gen3, Support riser card x8/x8, x8/x4/x4) 1 x M.2 (Key E, 2230) with PCIe x1 and shared USB 2.0 for Wireless 1 x M.2 (Key E, 3042) with shared USB 2.0 and SIM for 4G 1 x M.2 (Key E, 2280) with PCIE x 4 and SATA3 for SSD 1 x SIM socket connected to M.2 key B
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ETHERNET

Ethernet	2 x Intel Gigabit Ethernet LAN Interfaces (10/100/1000 ,10/100/1000/2500 Mbps)
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FRONT I/O

Display Port	2 x DP 1.4
HDMI	1 x HDMI 2.0a
Ethernet	1 x 1 Gigabit Ethernet LAN, 1 x 2.5 Gigabit Ethernet LAN
USB	4 x USB3.2 Gen2 standard-A connectors
Serial Port	2 x COM (RS-232/422/485)
Audio Port	1 x Line-Out, 1 x MIC-In connector
DC-IN	4P Rugged Terminal connector

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.
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Used in all aspects of the military.

Operating System	Windows 10 64bit Ubuntu16.04, Ubuntu14.04, Fedora 28
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PHYSICAL

Dimension	362 x 250 x 70 mm
Weight	TBC
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 COM: FEN YING SM10-09P HDMI + DP : JKCR Display and HDMI Female
Ingress Protection	Dust Proof (Similar to IP50)

ENVIRONMENTAL

MIL-STD-810G Test	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) 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)
Operating Temp.	-20 to 60°C
Storage Temp.	-40 to 85°C
EMC	CE and FCC compliance

Ordering Information

SCHX4

Intel Q740 MIL-STD Fanless Rugged System with Intel 10th Gen (Cometlake-S) i9-10900TE processor, Extended range of Temperature -20°C ~ 60°C