SD-5200P-M12D

Intel 8th Gen Core i7/i5/i3 CPU w/ 9 x GbE LAN (1 with RJ45, 8 with POE 802.3af/at (Total 100W) / 3 x COM/ 3 x HDMI / 4 x USB 3.0/ 9-48V Input AI GPU Computing

Features

- **Intel 8th Gen Core i7/i5/i3**
- **9 x GbE LAN (1 with RJ45, 8 with POE 802.3af/at (Total 100W)**
- **8 x GPI, 4 x GPO and 3 x RS232/422/485**
- **3 x HDMI Ports**
- **2 x 2.5" Drive Bay for SATA HDD/SSD (1 with hot swappable function)**
- **9-48V DC Input and Operating Temp.: -40~70°C**
- **TPM 2.0**

Introduction

The SD-5200P-M12D is powered by Intel Coffee Lake 8th Gen Core i7/i5/i3 CPU with 9 x GbE/ 3 x COM/ 3 x HDMI/ 4 x USB 3.0/ 9-48V Fanless Box Computer. It can provide high computing performance on graphic processing by harnessing the power of its graphics processing unit (GPU). SD-5200P-M12D fanless box computers feature the Dual Hot Swappable SATA Storage RAID, which allows more flexibility for hardware maintenance and expansion.

SD-5200P-M12D offers the best solution for customers and it can be adapted to various industrial requirements, including: Smart solutions (Smart Patrol, Smart Factory Automation Control System), Surveillance system (Bus Surveillance Fleet Management, Outdoor Video Surveillance System), and Visual management (Automatic License Plate Recognition, Vision Control System, Mining Machines).

Specifications

System

CPU	Intel Gen8 Core i7-8700T (12M Cache 2.4GHz up to 4.0GHz)
	Intel Gen8 Core i5-8500T (9M Cache 2.1GHz up to 3.5GHz)
	Intel Gen8 Core i3-8100T (6M Cache 3.1GHz)
	Intel Gen8 Celeron G4900T (2M Cache 2.9GHz)
Memory	2 x DDR4 2400 MHz SO-DIMM up to 32GB
LAN Chipset	9 x Intel I210-AT and 1 x i219LM (iAMT w/i5/i7 only) Gb/s
Watchdog	1 ~ 255 Level Reset
TPM	2.0

I/O

Serial Port	3 x RS-232/422/485 (Optional Max 4 x RS-232/422/485)
USB Port	4 x USB 3.0 Ports
LAN	1 x RJ45 Ports for GbE, 8 x PoE total Max. 100W), With M12 connector D-code (A-code is optional)
Video Port	3 x HDMI Ports
DIO Port	8 x GPI and 4 x GPO
Audio	1 x Line-out, 1 x Line-in and 1 x Mic-in
Expansion Bus	2 x full size Mini PCIe slots, 1 x M.2 A-E key 2230 slot (1 x SIM card socket)

Software

Operating System	Win 10 64 bits only, Ubuntu 18.04 64bit

Graphics

Graphics	Intel® UHD Graphics 630
Resolution	Max Resolution (DP) : 4096x2304@60Hz

Environmental

Operating Temp.	-40°C ~ 60°C (with wide temp. SSD), ambient w/0.6m/s w/airflow
Storage Temp.	-40°C ~ 80°C
Relative Humidity	5% RH - 95% RH @40°C (non-condensing)
Vibration (with SSD)	EN61373 category 1 Class A with SSD
	MIL-STD-810G, Method 514.6, Procedure I,Category 4 with SSD
Shock	Operating: MIL-STD-810G, Method 514.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
Certifications	CE Class A, FCC Class A, E13 (include ISO 7637-2)

Storage

Type	2 x 2.5" Drive Bay for SATA HDD/SSD (1 comes with hot swappable function), 1 x mSATA

Power Requirement

Power Input	9V - 48V DC Power Input
Power Protection	Automatics Recovery Short Circuit Protection
Power Mgmt.	Vehicle Power Ignition for Variety Vehicle
Power Off Control	Power off Delay Time Setting by BIOS and Software
Battery (UPS)	Internal Battery Kit for 10 Mins Operating (optional) *UPS backup time varies depending on actual overall system power consumption.

Mechanical

Construction	Aluminum Alloy
Mounting	Wall-mount
Weight	5190g (Barebone)
Dimensions	260(L) x 250(W) x 95(H) mm

Ordering Information

Part Number	SD-5200P-i7 Optional for i5/i3/C1 (with PoE)
	SD-5200-i7 Optional for i5/i3/C1
Description	Intel 8th Gen Core i7/i5/i3 CPU w/ 9 x GbE/ 3 x COM/ 3 x HDMI/ 4 x USB 3.0/ 9-48V Input AI GPU
State of Origin	Computing Made in China

Optional Accessories

DRAM	SO-DIMM max.DDR4-2666,4GB~32GB,0~70ºC/-40~85ºC
SATA SSD	2.5inch MLC/TLC 64GB~1TB 0~70ºC/-40~85ºC
mSATA	MLC 16G~512GB, 0~70ºC/-40~85ºC
Wifi	M.2 802.3a/b/g/n/ac
Modem	LTE miniPCIe card
GPS	GPS miniPCIe card
CANBUS	CANBUS miniPCIe card
Battery backup kit	5200 kit, 5200mA/h, -30~60ºC, discharge -20~60ºC, operating about 10 mins.AC/
Power adapter	DC 220W/24V or 280W/24V power adaper
Fan kit	SD-5200 FAN kit, total size 260x253x120.7mm

All specifications are subject to change without notice.