

SD-OMEGA SD-5200P-M12D

Intel 8th-Gen Core i7/i5/i3 CPU Vehicle Computer



Features

- Intel 8th-Gen Core i7/i5/i3 CPU
- 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
- Dual hot swappable SATA storage
- 9-48VDC input and operating temp. -40~60°C
- TPM 2.0

System

CPU	Intel Gen8 Core i7-8700TE (12M cache 2.4Ghz up to 4.0Ghz)
	Intel Gen8 Core i5-8500TE (9M cache 2.1Ghz up to 3.5Ghz)
	Intel Gen8 Core i3-8100TE (6M cache 3.1Ghz)
	Intel Gen8 Celeron G4900T (2M cache 2.9Ghz)
Memory	2x 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	Watchdog Timer Support, Offer 1-255 Step
TPM	2.0

I/O

Serial Port	2 x RS-232/422/485
USB port	4 x USB 3.0 Ports
LAN	1 x GbE LAN with RJ45, 8 x GbE LAN with POE 802.3af/at (Total Power 100W) With M12 connector D-code (A-code is optional)
Video port	2 x HDMI
DIO port	8 x GPI (5~48V) and 4 x GPO (TTL)
Expansion Bus	2 x full size Mini PCIe slots, 1 x M.2 A-E key 2230 slot (1 x SIM card socket)

Graphics

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

Storage

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

Windows	Windows 10 64bit only
Linux	Linux Ubuntu 18.40

Power Requirement

Power Input	9V - 48V DC Power input
Power Protection	Automatics recovery short circuit protection
Power management	Vehicle power ignition for variety vehicle
Power off control	Power off delay time setting by BIOS and software,

Environmental & Mechanical

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 and shock	EN61373 category 1 Class A with SSD
Vibration	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) EN50155, RoHS (Self-declaration)

Mechanical

Construction	Aluminum alloy
Mounting	Support wall-mount
Weight	5192g (bare-bone)
Dimensions	260 x 250 x 96mm

All specifications are subject to change without notice.