

SD-OMEGA SD-5000P

Intel 6th-Den Skylake Core i7/i5/i3 CPU Vehicle Computer

In-Vehicle Computing



Features

- Intel 6th-Gen Quad Core i7 LGA1151 CPU
- 4 x RS232/422/485 with 1.5KVrms isolated
- 8 x GPI and 4 x GPO with 1.5KVrms isolated
- 4 x PoE
- Dual hot swappable SATA storage
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- 9-36VDC input and operating temp. -40~70℃
- Fast expansible slot support PCI-E, USB, SMBus, GPIO and SATA

System

CPU	Intel Xeon Quad Core E3-1268L v5(8M cache2.4G up to 3.4Ghz)
	Intel Gen6 Core i7-6700TE (8M cache 2.4Ghz up to 3.4Ghz)
	Intel Gen6 Core i5-6500TE (8M cache 2.3Ghz up to 3.3Ghz)
	Intel Gen6 Core i3-6100TE (4M cache 2.7Ghz)
	Intel Pentium processor G4400TE (3M cache 2.4Ghz)
Memory	2x DDR4L 2133 MHz SO-DIMM up to 32GB
Chipset	Intel C236/Q170 Platform controller Hub
LAN Chipset	3 x Intel I210-AT and 1 x i219LM (support iAMT) Gb/s Support PXE and WOL
Watchdog	Watchdog Timer Support, Offer 1-255 Step

I/O

Serial Port	4 x RS-232/422/485 w/1.5KVrms isolation (Auto direction control)
USB port	4 x USB 3.0 Ports
LAN	4 x RJ45 port for 4 x POE (15.4W/port)
Video port	2 x Display port and 1 x VGA port (triple independent display)
DIO port	8 x GPI and 4 x GPO connector w/1.5KVrms isolation
Audio	1 x Line-out and 1 x Mic-in (Line-in optional)
Expansion Bus	3 full and 1 half mini PCIe slot (2 x SIM card socket)
FES Expansion	Support PCI-E, USB, SMBus, GPIO and SATA (customized for customer without NRE charge)

Graphics

Graphics	Intel HD Graphics 530
	DirectX Video Acceleration (DXVA) for Accelerating video
	Processing - Full AVC/VC1/MPEG2 HW decode
	Supports DirectX 11/10.1/10/9 and OpenGL4.0
Resolution	Max Resolution (HDMI1.4): 4096x2304@24Hz
	Max Resolution (DP): 4096x2304@60Hz

Storage

Type	2 x 2.5" Drive Bay for SATA HDD/SSD, support RAID 0,1 1 x SATA DOM
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Power Requirement

Power Input	9V - 36V 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,
Battery	Internal battery kit for 10 minutes operating (optional)

WLAN (optional)

GPS	Built-in uBlox GPS with extended antenna cable
3G	Built-in 3G/4G module
WiFi & BT	Built-in 802.11b/g/n WiFi

Environmental & Mechanical

Operating temp.	-40℃ ~ 70℃ (SSD), ambient w/air (default CPU 35W)
Storage temp.	-40℃ ~ 80℃
Relative humidity	0% RH - 95% RH
Vibration (random)	IEC60068-2-64, random, 2.5g @5-500Hz 1hr/axis with SSD
Vibration operating	MIL-STD-810G, Method 514.5, Procedure I, Category 4
Shock	Operating: MIL-STD-810G, Method 516.5, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
Certifications	CE, FCC Class A

Mechanical

Construction	Aluminum alloy
Mounting	Support wall-mount, VESA-mount, DIN Rail mounting kit
Weight	3865g (bare-bone)
Dimensions	240 x 226 x 80mm

Ordering Information

Part Number	SD-5000{-i7 optional for i5/i3/C1}
Description	Intel 6th-Gen Skylake Core i7/i5/i3 CPU w/ 4 PoE /
	4 ISO COM / 2 DP / VGA / 4 USB 3.0 / Fast Expansion
	Slot / 9~ 36V Fanless Computer

All specifications are subject to change without notice.