

SD-OMEGA SD-5000G1

Intel 6th/7th-Gen Quad Core i7/i5/i3 CPU with 6 GbE/7 HDMI
NVIDIA GeForce GTX 1050 GPU In-Vehicle Fanless Computer



Features

- Intel 6th/7th-Gen Quad Core i7 CPU
- NVIDIA GeForce GTX 1050 GPU
- Support 768 CUDA Cores
- 6 x GbE LAN (optional for 4 x PoE)
- 8 x GPI and 4 x GPO and 3 x RS-232/422/485
- 9-48VDC input and operating temp. -40~70°C

System

CPU	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 Q170 Platform controller Hub
LAN Chipset	5 x Intel I210-AT and 1 x i219LM (support iAMT) Gb/s
	Support PXE and WOL
Watchdog	Watchdog Timer Support, Offer 1-255 Step
TPM	2.0

I/O

Serial Port	4 x RS-232/422/485 (Auto direction control)
USB port	4 x USB 3.0 Ports
LAN	6 x RJ45 GbE port (optional for 4 x PoE 15.4W/port)
Video port	7 x HDMI port
DIO port	8 x GPI and 4 x GPO
Audio	1 x Line-out and 1 x Mic-in, 1 x Line-in
Expansion Bus	3 full and 1 half mini PCIe slot (2 x SIM card socket)
	1 x M.2 A-E Key 2230 slot

Graphics

Graphics	NVIDIA GeForce GTX 1050 (768 CUDA Cores)
	Support for OpenGL 4.5 and OpenCL 1.2
	Support for DirectX 12 (Feature level 12_0) features
Resolution	Max Resolution (HDMI 2.0b): 7680x3840@60Hz

Storage

Type	1 x 2.5" Drive Bay for SATA Type HDD/SSD, RAID 0,1,5
	1 x mSATA

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

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,
Battery	Internal battery kit for 10 minutes operating (optional)

Environmental & Mechanical

Operating temp.	-40°C ~ 70°C (SSD),
Storage temp.	-40°C ~ 80°C
Relative humidity	0% RH - 95% RH
Vibration (random)	IEC60068-2-64, random, 2.5G@5-500Hz, 1hr/axis with SD
Vibration Operating	MIL-STD-810G, Method 514.6, Procedure I Category 4
Shock	Operating: MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD
Certifications	CE, FCC Class A, E13

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-5000G-i7S optional for i5S/i3S/C1S
Description	Intel 6th/7th-Gen Quad Core i7/i5/i3 CPU w/ 6 GbE / 3 COM / 7 HDMI / 4 USB 3.0 / NVIDIA GeForce GTX 1050 GPU / 9~ 48V in-vehicle Fanless Computer

All specifications are subject to change without notice.