

SD-OMEGA SD-3120

Intel Haswell FANLESS in-Vehicle Computer



Features

- Intel Gen4 Dual Core Celeron 2980U processor
- Wireless support 3G, WLAN, GPS, GSM/GPRS, BT
- 9V~36V DC power input with 1500VDC isolation
- Smarter Vehicle power ignition
- Support 1 x RS-232 (option up to 3 x COM ports)
- Support 2 x DI / 2 x DO with Relay 12V / 100mA

System

CPU	Intel Gen 4 Dual Core Celeron 2980U 1.6GHz Intel Gen 4 Dual Core i3-4010U 1.7GHz
Memory	1 x DDR3L 1600 MHz SO-DIMM up to 8GB
Chipset	N/A
LAN Chipset	2 x Intel i210-AT Gigabit Ethernet
Graphics	Intel HD Graphics
ATA	2 x serial ATA port with 6GB/s HDD transfer rate
Watchdog	Watchdog Timer Support, Offer 1-255 Step

I/O

Serial Port	1 x RS232 (COM1 w/RS-232/422/485), Option 3xCOM
USB port	2 x USB 3.0 and 1 x USB 2.0
LAN	2 x RJ45 Ports for GbE
Video port	1 x HDMI and DVI-I
GPIO port	Support 2 in and 2 out with relay 12V / 100mA
Audio	Mic-in / Line-out
Expansion bus	3 x Mini-card slot
SIM card socket	2 x SIM card sockets support onboard with eject

Storage

Type	1 x 2.5" Drive Bay for SATA type HDD/SSD, 1 x SATA DOM
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Software

Operating system	Windows 7, WES 7, Windows 8.1, Linux 3.0X
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WLAN (optional)

GPS	Built-in uBlox GPS with 3m extended antenna cable
3G / LTE	Built-in 3G/LTE with 2 SIM card socket
WiFi & BT	Built-in 802.11b/g/n WiFi and Bluetooth 4.0

Power Requirement

Power Input	9V - 36V DC Power Input
Power management	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 minutes operating (optional)

Environmental

Operating temp.	-40°C ~ 70°C (SSD), ambient w/air
Storage temp.	-40°C ~ 80°C
Relative humidity	10% - 90% (non-condensing)
Vibration (random)	2.5g @5-500 Hz with SSD
Vibration operating	MIL-STD-810F, Method 514.5, Category 20 Ground vehicle-highway
Truck storage	MIL-STD-810F, Method 514.5, Category 24, Integrity Test
Shock	Operating MIL-STD-810F, Method 516.5, procedure I, Trucks and semi-trailers=15G (11ms) with SSD
Crash Hazard	MIL-STD-810F, Method 516.5, Procedure V, Ground equipment=100g
Certifications	CE, FCC Class A, eMark

Mechanical

Construction	Aluminum alloy
Mounting	Wall-mount/VESA-mount, Din rail mounting kit
Weight	1400g (bare-bone)
Dimensions	182 x 168 x 52mm