SD-OMEGA SD-3140

Intel Apollo Lake E3940 Fanless in-Vehicle Computer

Features

- Intel E3940 Atom CPU up to 1.8GHz
- Wireless support LTE, 3.5G, GPS, WLAN, BT
- Input 9~36V with Ignition control for variety vehicle
- 3 x RS-232 (COM1&2 with RS-232/422/485)
- 2 x DI / 2 x DO (12V / 100mA)

System

CPU	Intel E3940 Quad Core Atom CPU up to 1.8GHz
	Intel E3350 Dual Core Atom CPU up to 2.4GHz
Memory	1 x DDR3L 1600 MHz SO-DIMM up to 8GB
LAN Chipset	2 x Intel i210-AT Gigabit Ethernet
Graphics	Intel HD Graphics 500
ATA	2 x serial ATA port with 6GB/s HDD transfer rate
Watchdog	Watchdog Timer Support, Offer 1-255 Step
Resolution	3840 x 2160 @ 30Hz max.

I/O

Serial Port	3x RS232 (2 with RS-232/422/485)
USB port	2 x USB 3.0 and 1 x USB 2.0
LAN	2 x RJ45 GbE Ports
Video port	1 x HDMI, 1 x DVI-I(use only with single Link DVI cables)
GPIO port	2 In and 2 Out (12V / 100mA)
Audio	Mic-in / Line-out (option 2 x Line-out)
Expansion bus	3 x Mini-card slots
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

Software

Opearting system	Windows 10, Ubuntu 14.04 above

WLAN (optional)

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

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

Mechanical

Construction	Aluminum alloy
Mounting	Wall-mount/VESA-mount, Din rail mounting kit
Weight	1400g (bare-bone)
Dimensions	183 x 168 x 55mm