SD3620-M12X

Intel Gen6 Core i7-6600U CPU with Isolated Input 3 x GbE and 1 x iAMT
In-Vehicle Computer/ EN50155 Railway Applications

Features

- Intel Core i7-6600U / i5-6300U / i3-6100U
- Wireless support LTE w/ SIM Card, WLAN, GPS Dead Reckoning, BT(Option)
- 3 x GbE including 1 with iAMT
- Isolated wide Input Range 9-36V DC
- Max. 8 x SIM card Sockets
- Dual Hot Swappable SATA Storage, RAID 0,1,5
- EN50155 Tx temperature and class S2 interruption
- E-13 Certified

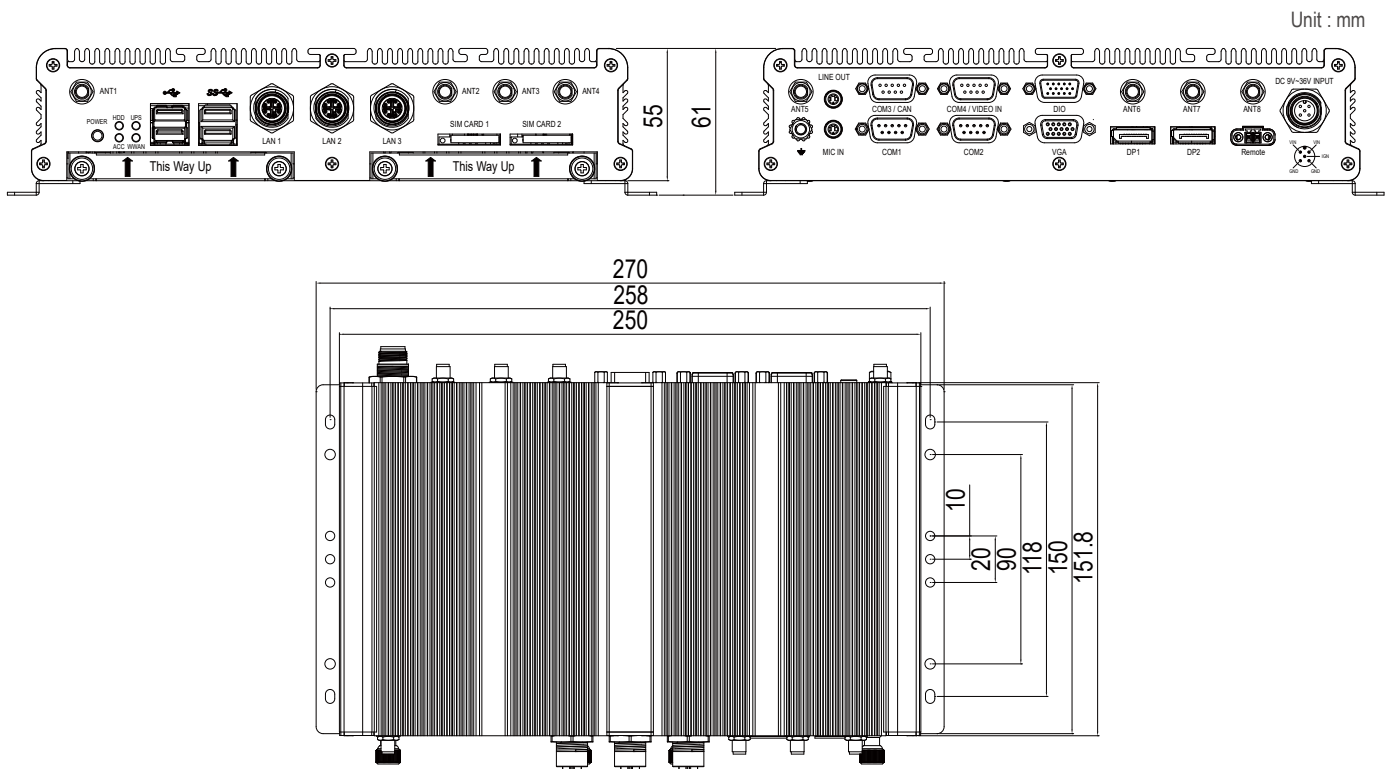GPS   Wireless   Wide Range   Delay Time

Introduction

The SD3620-M12X In-Vehicle Computers are powered by Intel Gen6 Core i7-6600U CPU with Isolated three GbE and one iAMT input In-Vehicle Computer. SD3620-M12X In-Vehicle Computer provides three GbE, including one with iAMT. It offers wireless support LTE with SIM Card, GPS, and BT (optional). It features smart vehicle power ignition for a variety of vehicles, and it can be adapted to all kinds of vehicle management systems like those with GPS, fleet monitoring systems, and vehicle repairing systems. It can manage a vehicle's internal capabilities to accurately assess and track a vehicle's internal hardware and software states, forward-thinking usage, and all fleet movements.

Specifications

System

CPU	Intel Gen6 Core i7-6600U 2.6GHz up to 3.4GHz
	Intel Gen6 Core i5-6300U 2.4GHz up to 3GHz
	Intel Gen6 Core i3-6100U 2.3GHz
	Intel Gen6 Dual Core 3955U 2.0GHz
Memory	2 x SO-DIMM DDR4 up to 32GB
LAN Chipset	6 x Intel I210AT
Audio	Realtek ALC662 HD Codec Onboard
Watchdog	Watchdog Timer Support, Offer 1 – 255 Step

I/O

Serial Port	4 x RS-232/422/485, w/ isolation (Auto Direction Control)
USB Port	2 x USB 3.0 Ports, 2 x USB 2.0 Ports
LAN	3 x 10/100/1000 Mb/s w/ M12 x-code (1 port with iAMT)
Video Port	2 x DP Port, 1 x VGA (Support Triple Independent Display)
DIO Port	8 x GPI and 4 x GPO w/ isolation
Audio	1 x Line-out and 1 x Mic-in (Line-in Optional)
SIM Card Socket	2 x SIM Card Sockets, supported onboard with eject
	6 x SIM Card Sockets (Optional order No. SIM-6A)
Expansion Bus	3 x Mini-card slots and 1 x M.2 A-E Key 2230 slot

Graphics

Graphics	Intel® HD Graphics 520
	DirectX Video Acceleration (DXVA) for Accelerating Video Processing - Full AVC/VC1/MPEG2 HW Decode Supports DirectX 11/10.1/10/9 and OpenGL 4.0
Resolution	Up to 4096 x 2304@60 Hz

Software

Operating System	Win 10, Ubuntu 16.04 64bit

Environmental

Operating Temp.	-40ºC ~ 70ºC, ambient w/ 0.6m/s airflow
Storage Temp.	-40ºC ~ 80ºC
Relative Humidity	10% RH – 90% RH (non-condensing)
Vibration (with SSD)	IEC60068-2-64, random, 2.5G@5~500Hz, 1hr/axis
	EN 50155 EN61373, Operating
Shock	EN 50155 EN61373
Certifications	CE, FCC Class A, EN50155, EN50121, E13, EN45545-2 (R25)

Storage

Type	2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0, 1, 5
	1 x SATA DOM

Power Requirement

Power Input	9V - 36V DC Power Input with Isolation
Power Protection	Automatics Recovery Short Circuit Protection
Power Mgmt.	Vehicle Power Ignition for Variety Vehicle
Power Off Control	Power off Delay Time Setting by Software and BIOS
Battery (UPS)*	Internal Battery Kit for 10 Mins Operating (Optional)
	*with 6 x SIM card slots option cannot have Battery option

Mechanical

Construction	Aluminum Alloy
Mounting	Supports Both of Wall-mount/VESA-mount
Weight	1900g
Dimensions	250 x 150 x 55 mm

All specifications are subject to change without notice. Website: www.sd-omega.com Email: sales@sd-omega.com

Dimensions

Unit : mm

Ordering Information

Part Number	SD3620-M12X-i7, option for i5/i3/C1
Description	Intel Gen6 Core i7-6600U CPU with Isolated Input 3x GbE with 1 x iAMT In-Vehicle Computer/EN50155 Railway Applications
State of Origin	Made in China

Optional Accessories

DRAM	SO-DIMM max.DDR4-2133,4GB~32GB,0~70ºC/-40~85ºC
SATA SSD	2.5inch MLC/TLC 64GB~1TB 0~70ºC/-40~85ºC
SATA DOM	MLC 8G~128GB, 0~70ºC/-40~85ºC
Wifi	Wifi miniPCIe half size card 802.3a/b/g/n/ac
Modem	LTE miniPCIe card
GPS	GPS miniPCIe card
CANBUS	CANBUS miniPCIe card
SIM-6A kit	3 x Modem miniPCIe w/ 6*SIM cards. Cannot use with BATTERY
Battery backup kit	1150mAH 3S1P Battery kit (-30~60ºC)
Power adapter	Power Adapter 12V/5A 60W Jack