



■ Features

- Intel® Atom™ x7-E3950 Processor (Codenamed Apollo Lake)
- Vehicle Surveillance NVR with 6x RJ-45 ports (4 with PoE / 2 with PoE+), DIO,Optional CAN bus port, Dual COM and DVI-D ports
- Optional removable PGN Caddy for 4G/LTE module
- Wide range operating temperature from -40 to 70°C
- Removable 2.5" Drive Bay for HDD/SSD
- 1x Full Size Mini-PCle with dual SIM card reader, 1x Half Size Mini-PCle
- Compliant with E13 standard

■ Specifications

Processor System		Expansion	
CPU	Intel® Atom™ x7-E3950	PCle	1x Full Size Mini-PCIe with dual SIM card reader, 1x Half Size Mini-PCIe, Optional removable PGN Caddy with dual SIM card readers
Frequency	1.60 GHz		
Core Number	Quad-core	Cooling	Caudy With dual Silvi Card readers
BIOS	AMI SPI Flash BIOS	Processor	Passive CPU heatsink
Chipset	N/A	System	Fanless design with corrugated aluminum
Graphic Processor	Intel® Integrated HD Graphics 505	Environment	raniess design with corrugated adminidin
Fanless		Operating	-40~70°C / -40~158°F
	Yes	Temperature	40-70 C7 40-130 1
Memory		Storage Temper-	-40~85°C / -40~185°F
Technology	DDR3L 1866 SO-DIMM Socket x1	ature	
Max. Capacity	Up to 8GB, pre-installed 4GB	Relative Humidity	5%~95% @ 40°C / 104°F (Storage Level)
Socket	1 x 204-pin SODIMM	Miscellaneous	
Ethernet		Hardware Moni- toring	Yes
Controller	Intel i210IT x3	Internal RTC with Li Battery	Yes
Interface	RJ-45		
PoE	IEEE 802.3af PoE ports x4 / at PoE+ ports x2 (SKU	Mechanical	
Audio	B); under maximum 60W power budget	Dimensions (W x H x D)	273.8 x 73 x 185 mm (10.78" x 2.87" x 7.28")
Controller	Realtek ALC886 HD codec	Weight	4 kg
Interface	Mic-in and Line-out	Mounting	Wall mount kit
Storage		Power	
Туре	SATA	Connector	3-pin terminal block (+,-,ignition)
Installation	Removable 2.5" drive bay x1 (HDD/SSD is not included)	Input	Supports DC 9~36V level, ATX mode support ignition delay on/off control
Туре	mSATA	Driver Support	
Installation	mSATA socket x1, pre-installed 128GB	Microsoft Win-	Windows 10
I/O		dows	
Display	DVI-Dx2, resolution up to 1920x1200	Linux	Linux: Redhat Enterprise 5, Fedora 14. Linux Kernel
LAN	6x RJ-45 ports (4 with PoE / 2 with PoE+)		2.6.18 or later
CAN	Optional CAN Bus x1 @ J1939/ J1708 x1	Certification	
COM	RS-232/422/485 x2	EMC	CE Class A, FCC Class A, RoHS
USB	USB 2.0 Type A x2 u-blox NEO-M8N/ADXL 345 8x DI 5V TTL and 8x DO 12V TTL,	Safety	E13 include ISO 7637-2
GPS/G-sensor		Compliance	AW STR 040G AA II JESS S
Digital I/O		Vibration	MIL-STD-810G, Method 514.6
	2x DI (from MCU) 3.3V TTL 1x 12V with 1A dry relay	Shock	MIL-STD-810G, Method 516.6
Antenna	SMA antenna hole x7 (includes GPS+GLONASS x1)		

V3S

Product I/O View

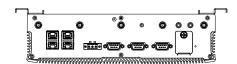


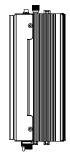


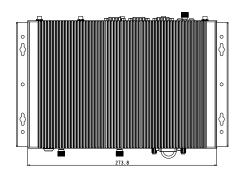
- A GbE LAN ports x 2
- B DIO
- C DVI-D x 2
- **D** USB ports
- E Removable Drive Bay
- F Removable PGN Caddy
- **G** SIM slot
- H Optional CAN Bus
- COM ports x 2
- DC IN
- K PoE/PoE+ ports
- Audio ports

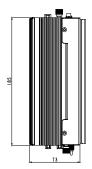
M Antennas

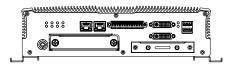
■ Dimensions 273.8 x 73 x 185 mm (10.78" x 2.87" x 7.28")











Ordering Information

V3SA Fanless In-vehicle Surveillance Computer with Intel® Atom™ x7-E3950 Processor, IEEE 802.3af PoE ports RJ45 x4

V3SB Fanless In-vehicle Surveillance Computer with Intel® Atom™ x7-E3950 Processor, IEEE 802.3af PoE ports RJ45 x4

/ at PoE+ ports RJ45 x2 (max. 60W)

PGN-300 4G LTE Radio Modem with LTE Cat-6 embedded module, certified with PTCRB, AT&T, Verizon.

PGN-600 4G LTE-Advanced Pro Radio Modem with LTE Cat-12 embedded module, certified with PTCRB, AT&T.



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