

Fanless Vehicle NVR

Fanless In-vehicle Surveillance Computer with Intel Atom
Apollo Lake x7-E3940 @ 1.6GHz 9W Quad Cores
6x RJ-45 ports (4 with PoE)

Model: LPC-V53-AT



FEATURES

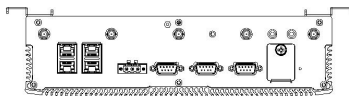
- Intel® Atom™ x7-E3950 Processor (Codenamed Apollo Lake)
- Vehicle Surveillance NVR with 6x RJ-45 ports (4 with PoE), DIO, Optional CAN bus port, Dual COM and DVI-D ports
- 1x removable Mini-PCIe 3.0 slot for 4G/Lte module
- Wide range operating temperature from -40 to 70°C
- Removable 2.5" Drive Bay for HDD/SSD
- 1x Full Size Mini-PCIe with dual SIM card reader, 1x Half Size Mini-PCIe
- Compliant with E13 standard

PRODUCT I/O VIEW

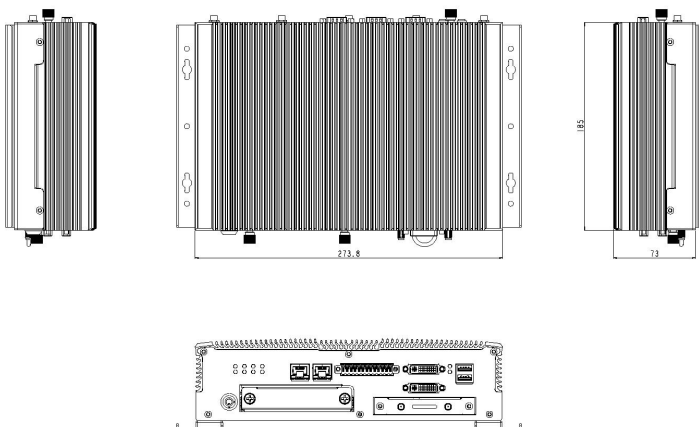


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|----------------------------|------------------------------------|---------------------------|------------------------|-------------------|
| A GbE LAN ports x 2 | D USB ports | G SIM slot | J DC IN | M Antennas |
| B DIO | E Removable Drive Bay | H Optional CAN Bus | K PoE ports x 4 | |
| C DVI-D x 2 | F Removable Mini-PCIe slots | I COM ports x 2 | L Audio ports | |

MECHANICAL DRAWING



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



SPECIFICATIONS

PROCESSOR SYSTEM	
CPU	Intel® Atom™ x7-E3950
Frequency	1.60 GHz
Core Number	Quad-core
BIOS	AMI SPI Flash BIOS
Chipset	N/A
Graphic Processor	Intel® Integrated HD Graphics 505
FANLESS	
	Yes
MEMORY	
Technology	DDR3L 1866 SO-DIMM Socket x1
Max. Capacity	Up to 8GB
Socket	1 x 204-pin SODIMM
ETHERNET	
Controller	Intel i210IT x3
Interface	RJ-45
PoE	IEEE 802.3at POE ports RJ45 x4
AUDIO	
Controller	Realtek ALC886 HD codec
Interface	Mic-in and Line-out
STORAGE	
Type	SATA
Installation	Removable 2.5" drive bay x1 (HDD/SSD is notincluded)
Type	mSATA,
Installation	mSATA socket x1
I/O	
Display	DVI-Dx2, resolution up to 1920x1200
LAN	6x RJ-45 ports (4 with PoE)
CAN	Optional CAN Bus x1 @ J1939/ J1708 x1
COM	RS-232/422/485 x2
USB	USB 2.0 Type A x2
GPS/G-sensor	u-blox NEO-M8N/ADXL 345
Digital I/O	8x DI 5V TTL and 8x DO 12V TTL, 2x DI (from MCU) 3.3V TTL 1x 12V with 1A dry relay

Antenna	SMA antenna hole x7 (includes GPS+GLON-ASS x1)
EXPANSION	
PCle	1x Full Size Mini-PCle with dual SIM card reader, 1x Half Size Mini-PCle, 1x External Mini-PCle 3.0 with dual SIM card readers
COOLING	
Processor	Passive CPU heatsink
System	Fanless design with corrugated aluminum
ENVIRONMENT	
Operating Temperature	-40~70°C / -40~158°F
Storage Temperature	-40~85°C / -40~185°F
Relative Humidity	5%~95% @ 40°C / 104°F (Storage Level)
MISCELLANEOUS	
Hardware Monitoring	Yes
Internal RTC with Li	Yes
Battery	
MECHANICAL	
Dimensions (W x H x D)	273.8 x 73 x 185 mm (10.78" x 2.87" x 7.28")
Weight	4 kg
Mounting	Wall mount kit
POWER	
Connector	3-pin terminal block (+,-,ignition)
Input	Supports DC 9~36V level, ATX mode support ignition delay on/off control
DRIVER SUPPORT	
Microsoft Windows	Windows 10
Linux	Linux: Redhat Enterprise 5, Fedora 14. Linux Kernel 2.6.18 or later
CERTIFICATION	
EMC	CE Class A, FCC Class A, RoHS
Safety	E13 include ISO 7637-2, SAE J1455&J1113-11
COMPLIANCE	
Vibration	MIL-STD-810G, Method 514.6
Shock	MIL-STD-810G, Method 516.6