

# IVS-110-AL

## Vehicle Fleet Management System



### Features

- » Intel® Apollo Lake processor
- » Dual SIM slot
- » Optional 3G/Wi-Fi
- » 16 x DI/DO
- » 1 x HDMI (lockable), 1 x VGA
- » Built-in GPS function
- » E-Mark certification
- » Built-in OBD-II/J1939
- » IP4X protection

### Specifications

Form factor	
SBC Form Factor	*CPU: Intel® Atom™ x7-E3950 Processor (quad-core 2.0GHz, 12W TDP)
	*Chipset: SoC
	*System Memory: 1 x 204-pin DDR3L SO-DIMM. 4GB pre-installed
	*Communication
	WLAN: PCIe Mini Wi-Fi 802.11 a/b/g/n/ac (optional)
	Bluetooth: BT 4.0/3.0+HS (combo with WLAN optional module)
	WWAN: PCIe Mini WCDMA/HSDPA/HSUPA (optional)
	GPS: On board GPS
	*Safety/EMC: CE/FCC/E-Mark/IP rating : IP 4X compliant
	*Supported OS: Microsoft® Windows 10 IoT Enterprise
I/O Interface	
I/O Ports	4 x USB 3.0
	1 x RJ-45 PCIe GbE by Intel® I211
	1 x RS-232/422/485 (BIOS configuration)
	1 x 16-bit digital I/O (8-bit input / 8-bit output)
	1 x DB9 OBD-II/J1939
	2 x Display -
	>> 1 x VGA (Up to 1920 x 1200 @ 60 Hz)
	>> 1 x HDMI (Up to 3840 x 2160 @ 30 Hz)
	1 x Audio line out
	2 x on board SIM card slot
Expansion Slots	
Expansion Slots	1 x Full/Half-size PCIe Mini slot (reserved for WWAN)
	1 x Full/Half-size PCIe Mini slot (reserved for mSATA or E-window)
	1 x Half-size PCIe Mini slot (reserved for WLAN)
System	
Cooling method / System Fan	Fanless
Drive Bays	*Hard Drive: 1 x 2.5' SATA 6Gb/s HDD/SSD drive bay
	*mSATA / eMMC:
	1 x mSATA (PCIe Mini Slot)
	1 x eMMC 5.0 (reserved)
Physical Characteristics	

Construction	Extruded aluminum alloy
	Mounting Wall mount / VESA 100
Color	
Color	Black
Dimensions	
Dimensions	261 x 170 x 60 (WxHxD) (mm)
Weight	
Weight	2.4 kg / 3.8 kg (Net/Gross)
Environment	
Operating Temperature	Operating: -30°C ~ +70°C with air flow
	Storage: -40°C ~ 80°C
Humidity	10% ~ 95%, non-condensing

## Ordering Information

IVS-110-AL-E3/4G-R10	Fanless embedded system with Intel® Atom™ x7-E3950 (12W) Processor with 4GB DDR3L pre-installed memory, on board GPS, HDMI, VGA, one GbE LAN, one 2.5" SATA HDD bay, two SIM slots, RoHs
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## Packing List

1 x Screw pack	1 x SATA Cable
2 x Wall Mount Kit	