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***Vehicle Fleet Management System***

**IVS-100-BT**

***Features***


## Intel® Atom® E3826 1.46 GHz CPU

* Powered by Windows® Embedded Standard 7
* Supports 2.5" SATA 3Gb/s SSD
* Built-in GPS function
* Built-in VGA output and HDMI output
* Dual SIM slot
* Optional 3G/Wi-Fi/UHF reader modules
* Optional software compression video capture card

Power Management

GPS

3.75G/HSUPA

Bluetooth

Wi-Fi

Video Capture

Fanless

***Industrial System***

# *Specifications*

|  |  |
| --- | --- |
| **Model Name** | **IVS-100-BT** |
| **Chassis** | **Color** | Blue C |
| **Dimensions (WxHxD) (mm)** | 200 x 76 x 150 |
| **System Fan** | Fanless |
| **Chassis Construction** | Extruded aluminum alloy |
| **Motherboard** | **CPU** | Intel® Atom™ processor E3826 (dual-core, 1.46 GHz, 7W TDP) |
| **Chipset** | SoC |
| **System Memory** | 2 x 204-pin DDR3L SO-DIMM slot, 2 GB pre-installed (system max. 8GB) |
| **Storage** | **Hard Drive** | 1 x 2.5" SATA 3Gb/s HDD/SSD drive bay |
| **SD Card** | 1 (supports SD 2.0, max. 32 GB) |
| **Communication** | **WLAN** | PCIe Mini Wi-Fi 802.11b/g/n (optional) |
| **Bluetooth** | Bluetooth 2.1 (combined with WWAN optional module) |
| **WWAN** | PCIe Mini, WCDMA/HSDPA/HSUPA (optional) |
| **RFID** | UHF module, 902 MHz ~ 928 MHz operating band (optional) |
| **GPS** | On board GPS |
| **I/O Interfaces** | **USB 3.0** | 4 |
| **Ethernet** | 2 x 10/100/1000 Mbps RJ-45 by RTL8111E PCIe GbE |
| **COM Port** | 2 x DB-9 RS-2321 x DB15 GPIO & RS-422/485 |
| **Digital I/O** | 8-bit digital I/O (4-bit input, 4-bit output) |
| **CAN-bus/OBD-II** | 1 x DB-9 OBD-II/J1939 |
| **Display** | 1 x VGA, 1 x HDMI |
| **Resolution** | HDMI: Up to 1920 x 1080 @60 HzVGA: Up to 1920 x 1080 @60 Hz |
| **Audio** | 1 x Line in, 1 x Line out |
| **SIM** | 2 x on board SIM card slot |
| **Antenna** | 2 x Wi-Fi/BT, 1 x WWAN, 1 x GPS, 4 x UHF |
| **Other** | 4-channel SC video capture card (optional) |
| **Expansions** | **PCI** | 1 x PCI-104 |
| **PCIe Mini** | 1 x Full-size PCIe Mini (reserved for WWAN)1 x Full-size PCIe Mini (reserved for capture card module) 1 x Full-size PCIe Mini (reserved for analog DIO module) 1 x Half-size PCIe Mini (reserved for WLAN) |
| **Power** | **Power Input** | Cigarette lighter power cable, DC 9 V~30 V |
| **Consumption** | 12 V @ 3.2 A (Intel® Atom™ E3826 with 2 GB DDR3 memory) |
| **Reliability** | **Mounting** | VESA 100 |
| **Operating Temperature** | -20°C ~ 60°C with air flow |
| **Storage Temperature** | -30°C ~ 70°C |
| **Humidity** | 10% ~ 95%, non-condensing |
| **Operating Shock** | Half-sine wave shock 5G, 11ms, 3 shocks per axis |
| **Operating Vibration** | MIL-STD-810F 514.5C-2 (with SSD) |
| **Weight (Net/Gross)** | 2.1 kg/3.6 kg |
| **Safety/EMC** | CE/FCC/E-Mark |
| **OS** | **Supported OS** | Microsoft® Windows® Embedded 8, Microsoft® Windows® Embedded Standard 7 E |

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***Fully Integrated I/O***

***Front view***

***Dimensions (Unit: mm)***

Wi-Fi &

4 x UHF RFID

Wi-Fi &

GPIO &

4 x USB 3.0

DC Input

Bluetooth Antenna

Antenna (Optional)

Bluetooth Antenna

RS-422/485

HDMI

3G Antenna

Power

GPS

Antenna

2 x RS-232

VGA

(Optional) Line-out Line-in

Switch ODB-II

Video Capture (Optional)

2 x GbE

***Side view***



***Ordering Information***

SDHC

Card Slot

|  |  |
| --- | --- |
| **Part No.** | **Description** |
| **IVS-100-BT-E3/2G-R10** | Fanless embedded system with Intel® Atom™ E3826 1.46 GHz processor, 7W TDP, pre-installed 2 GB DDR3L memory, two GbE LAN, one HDMI, oneVGA, one 2.5” SATA HDD bay, on-board GPS, RoHS |

# *Options*

***IVS-100-BT***

### Item Part No. Description

**Power adapter** IVIPOWER-4PIN-R10 Power adapter with 4-pin transfer cable, RoHS

**Cigarette lighter power cable** 32002-004000-100-RS Round cable, power cable, car cigarette lighter cable, 2000 mm, 18 AWG, (A) cigarette lighter (5 A 250 V)+ψ3

green LED, (B) MOLEX 5557-0400 P=4.2, RoHS

**OBD-II cable** 32025-003400-100-RS Round cable, OBD-II cable, 2000 mm, 24 AWG, (A) OBD-II 16P male, (B) D-sub 9P female, one piece package with

label, RoHS

### OS: Windows Embedded 7 (DVD-ROM)

**Wireless kit**

**WWAN kit**

**UHF module**

**UHF RFID antenna (Patch Antenna 915 MHz)**

**4-channel video capture card**

**Dead reckoning box**

***Packing List***

IVS-100-WES7E-R10

IVS-WIFI-KIT02-R10

IVS-3G-KIT02-R10 IVS-UHF01-R10

AVL-2000PLUS-FCC01-R10

IVS-SC01-R10 IVI-DR-R10

OS image with Windows® Embedded Standard 7 E for IVS-100 Series, DVD-ROM, RoHS

1T1R Wi-Fi module kit for embedded system, IEEE802.11a/b/g/n/ac Wi-Fi with Bluetooth 4.0/3.0+HS, 1 x Wi-Fi module, 1 x Antenna, RoHS

3G module kit for embedded system, F260, 1 x 3G module, RoHs UHF RFID patch antenna, 915 MHz, only for United States

UHF RFID antenna module, patch antenna, 915 MHz, 8.5dBi, with RFID cable, LMR195, 10000 mm, SMA PLUG, RoHS

Video capture card, PCIe Mini card with 4-channel video capture, SC330N4 MC, RoHS IVI dead reckoning box, USB output

***Industrial System***

**Item**

**HDD Bracket SATA Cable Power Cable**

**Part No.**

41119-0841C0-00-RS

32801-003800-100-RS

32002-001900-100-RS

**Qty**

1

1

1

**GPS/GSM Antenna**

32506-000100-100-RS

1

**Rubber pad & Screw pack**

44013-030041-RS

47003-002300-RS

44403-030041-RS

44043-030063-RS

4

4

4

2

**Description**

HDD bracket, holder, RoHS

SATA cable, 3, 150mm/300mm, 26AWG, RoHS round cable, power cable, 3000mm, RoHS

Integration antenna, GPS/GSM, RG 174, 5000mm/5000mm, PPF-5423SA5X-999, Magnetic mount:

φ55x22mm, 1575.42MHz/850MHz/900MHz/1800MHz/1900MHz, SMA plug x 2 Rubber pad & screw pack

Rubber pad & screw pack

Rubber pad & screw pack Rubber pad & screw pack