

# IVS-200-ULT2

## Vehicle Surveillance System



### Features

- Intel® i5-5350U dual-core 1.8 GHz CPU or Intel® Celeron® 3755U dual-core 1.7 GHz CPU
- Four Intel® GbE LAN ports
- 9 V ~ 36 V DC input
- Two RS-232/422/485
- E-Mark certification

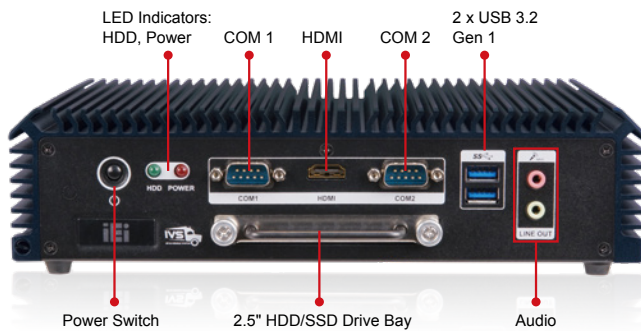


### Specifications

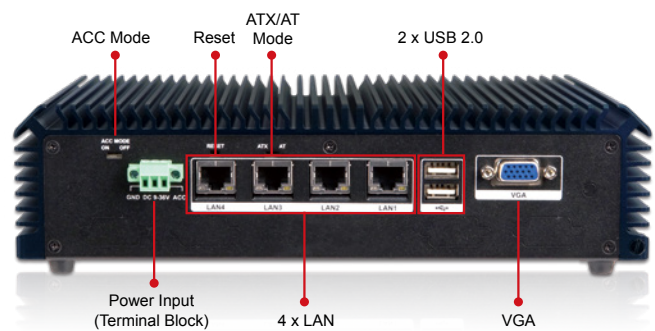
| Model Name     |                         | IVS-200-ULT2                                                                                                                                            |
|----------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chassis        | Color                   | Blue C                                                                                                                                                  |
|                | Dimensions (WxHxD) (mm) | 255 x 63 x 150                                                                                                                                          |
|                | System Fan              | Fanless                                                                                                                                                 |
|                | Chassis Construction    | Extruded aluminum alloy                                                                                                                                 |
| Motherboard    | CPU                     | Intel® Core™ i5-5350U Processor (dual-core, 1.8 GHz, 15W TDP) or Intel® Celeron® 3765U Processor (dual-core, 1.9 GHz, 15W TDP)                          |
|                | Chipset                 | SoC                                                                                                                                                     |
|                | System Memory           | 2 x 204-pin DDR3L SO-DIMM slot<br>4 GB pre-installed (system max. 16 GB)                                                                                |
| Storage        | Hard Drive              | 1 x 2.5" SATA 6Gb/s HDD/SSD removable drive bay                                                                                                         |
|                | mSATA                   | 1 x mSATA (SATA 6Gb/s)                                                                                                                                  |
| Communication  | WLAN                    | PCIe Mini Wi-Fi 802.11b/g/n (optional)                                                                                                                  |
|                | Bluetooth               | Bluetooth 2.1 (combined with optional WWAN module)                                                                                                      |
|                | WWAN                    | PCIe Mini WCDMA/HSDPA/HSUPA (optional)                                                                                                                  |
| I/O Interfaces | USB 3.2 Gen 1           | 2                                                                                                                                                       |
|                | USB 2.0                 | 2                                                                                                                                                       |
|                | Ethernet                | 4 x RJ-45 connector<br>LAN1: PCIe GbE by Intel® I218<br>LAN2: PCIe GbE by Intel® I211<br>LAN3: PCIe GbE by Intel® I211<br>LAN4: PCIe GbE by Intel® I211 |
|                | COM Port                | 2 x DB-9 RS-232/422/485<br>4 x DB-9 RS-232 (optional)                                                                                                   |
|                | Display                 | 1 x VGA, 1 x HDMI                                                                                                                                       |
|                | Resolution              | VGA: up to 2560 x 1600 @ 60 Hz<br>HDMI: up to 3840 x 2160 @ 60 Hz                                                                                       |
|                | DIO                     | 8-bit digital I/O (4-bit input, 4-bit output) (optional)                                                                                                |
|                | SIM                     | 1 x On-board SIM card slot                                                                                                                              |
|                | Antenna                 | 1 x 3G, 1 x BT, 1 x Wi-Fi                                                                                                                               |
|                | Audio                   | 1 x Line out, 1 x Mic in                                                                                                                                |
|                | Expansions              | 1 x Full-size (reserved for WWAN or mSATA)<br>1 x Full-size (reserved for WLAN)                                                                         |
|                | Power                   | DC jack : 9 V~36 V DC                                                                                                                                   |
|                | Consumption             | 12 V @ 2.1 A (Intel® i5-5350U with 4 GB DDR3 memory)                                                                                                    |
| Reliability    | Mounting                | VESA 100                                                                                                                                                |
|                | Operating Temperature   | -20°C ~ 60°C with air flow (SSD)                                                                                                                        |
|                | 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)      | 2.2 kg/3 kg                                                                                                                                             |
| OS             | Safety/EMC              | CE/FCC/E-Mark                                                                                                                                           |
|                | Supported OS            | Microsoft® Windows® Embedded 8, Microsoft® Windows® Embedded Standard 7 E                                                                               |

## Fully Integrated I/O

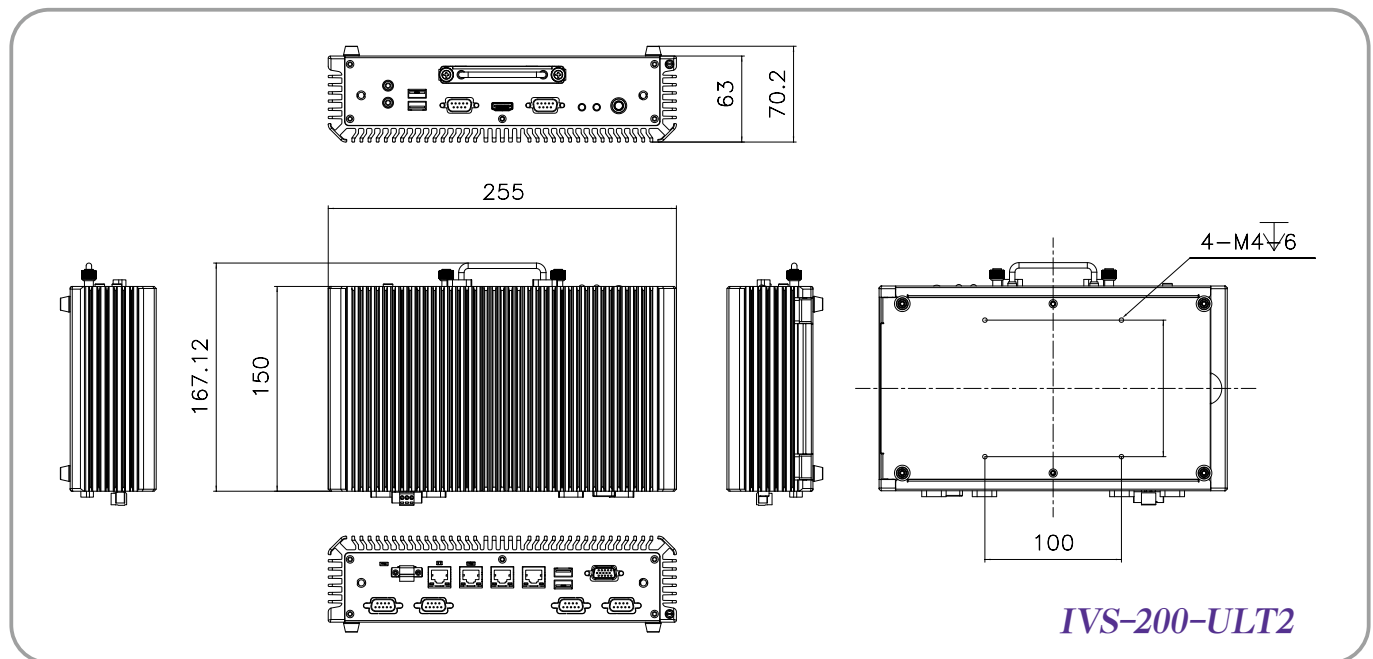
Front view



Rear view



## Dimensions (Unit: mm)



## Ordering Information

| Part No.               | Description                                                                                                                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IVS-200-ULT2-I5/4G-R11 | Fanless system with Intel® Core™ i5-5350U CPU, up to 2.9GHz, TDP 15W, four GbE LAN ports, one HDMI, one VGA, two RS-232/422/485, one 2.5" removable SATA HDD bay, 4 GB memory pre-installed, 9 V~36 V DC, RoHS |
| IVS-200-ULT2-C/4G-R11  | Fanless system with Intel® Celeron® 3765U 1.7GHz CPU, TDP 15W, four GbE LAN ports, one HDMI, one VGA, two RS-232/422/485, one 2.5" removable SATA HDD bay, 4 GB memory pre-installed, 9 V~36 V DC, RoHS        |

## Options

| Item         | Part No.                 | Description                                                                                                                                           |
|--------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| OS           | IVS-200-ULT2-WES7E64-R10 | OS image with Windows® Embedded Standard 7 E 64-bit for IVS-200-ULT2, DVD-ROM, RoHS                                                                   |
| Serial cable | 32205-005400-100-RS      | RS-232 cable, 150 mm, 2x5 pin                                                                                                                         |
| DIO cable    | 32231-000100-200-RS      | DIO cable, 150 mm, 2x5 pin                                                                                                                            |
| Wireless kit | EMB-WIFI-KIT01-R20       | 1T1R wifi module kit for embedded system, IEEE802.11a/b/g/n/ac WiFi with Bluetooth 4.0/3.0+HS, 1 x wifi module, 2 x 250mm RF cable, 2 x Antenna, RoHS |
| 3G Module    | IVS-3G-KIT02-R10*        | 3G module kit for embedded system, F260, 1 x 3G module, RoHS                                                                                          |
| Antenna      | 32505-004200-100-RS*     | WLAN:LTE FULL BAND ANTENNA;RG 178;137MM;RFA-LTE-C55-U-B70-1;Peak Gain:4dBi;50Ω;ARISTOTLE;700~2700MHz;VSWR≤4.0;SMA PLUG;RoHS                           |
| RF Cable     | 32501-000704-100-RS*     | RF:RF CABLE FOR DVB-T;LINE DIAMETER:1.37mm;263MM;50Ω;Exceltek;0-6GHz;VSWR≤1.5;I-PEX;SMA JACK;NUT*1;WASHER*2;RoHS                                      |

\* Each 3G module needs two antennas and two RF cables to fully support 3G function.

## Packing List

| Item           | Part No.           | Qty | Description        |
|----------------|--------------------|-----|--------------------|
| Screw pack     | 44013-030041-RS    | 4   | Screw pack         |
|                | 44005-030083-RS    | 4   | Screw pack         |
| Wall mount kit | 41020-0433C2-00-RS | 2   | Wall mount bracket |

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[IVS-200-ULT2-C/4G-R11](#) [IVS-200-ULT2-i5/4G-R11](#)