

# VBOX-3610-V4

## Intel Core i7-5650U Hybrid Mobile DVR Surveillance with 4 Channel Camera On-Board Computer



-  Delay Time
-  Power Ignition
-  Wide Range
-  Wireless
-  Battery Backup

Taiwan Patent No. M447854  
Taiwan Patent No. M448011

### System

|                 |   |
|-----------------|---|
| <b>CPU</b>      | Intel Gen 5 Core i7-5650U 2.2GHz up to 3.1GHz<br>Intel Gen 5 Core i3-5010U 2.1GHz |
| <b>Memory</b>   | 2 x DDR3L 1600 MHz SO-DIMM up to 16GB   |
| <b>Watchdog</b> | 1 ~ 255 Level Reset   |

### Mobile DVR Specification

|                                 |  |               |
|---------------------------------|--|---------------|
| <b>Video Input</b>              | 4 Channels (4 x BNC Connectors)                  |               |
| <b>Video Recording</b>          | Total 120FPS (NTSC), 100FPS (PAL) @ D1 Real-Time |               |
| <b>Video Display</b>            | Total 120FPS (NTSC), 100FPS (PAL) @ D1           |               |
| <b>Resolution Format</b>        | NTSC   | PAL           |
| <b>(S/W MPEG4 or S/W H.264)</b> | 720x480x30FPS                                    | 720x576x25FPS |
|                                 | 704x480x30FPS                                    | 704x576x25FPS |
|                                 | 640x480x30FPS                                    | 640x576x25FPS |
|                                 | 720x240x30FPS                                    | 720x288x25FPS |
|                                 | 704x240x30FPS                                    | 704x288x25FPS |
|                                 | 640x240x30FPS                                    | 640x288x25FPS |
|                                 | 360x240x30FPS                                    | 360x288x25FPS |
|                                 | 352x240x30FPS                                    | 352x288x25FPS |
|                                 | 320x240x30FPS                                    | 320x288x25FPS |
| <b>Audio Input</b>              | 1 Channel  |               |
| <b>Audio Format</b>             | MONO / 8 ~ 16BITS / 8000 ~ 48000HZ               |               |
| <b>Software</b>                 | SDK for Windows XP, 7, Linux Ubuntu 14.04 above  |               |

### I/O

|                        |   |
|------------------------|---|
| <b>Serial Port</b>     | 3 x RS-232 (2 with RS-422/485 (Auto Direction Control)) |
| <b>USB Port</b>        | 2 x USB 3.0 and 2 x USB 2.0 Ports                       |
| <b>LAN</b>             | 2 x RJ45 Ports for GbE                                  |
| <b>Video Port</b>      | 1 x VGA, 1 x DVI-I* and 1x HDMI                         |
| <b>DIO Port</b>        | 4 In and 4 Out  |
| <b>Audio</b>           | 1 x Line-out and 1 x Mic-in (Line-in Optional)          |
| <b>SIM Card Socket</b> | 2 x SIM Card Sockets Supported Onboard with eject       |

\* Use only with Single Link DVI Cables.

### Features

- Intel Core i7-5650U / Core i3-5010U
- Wireless Support LTE, 3.5G w/ Dual SIM Cards, WLAN, GPS DR & G-Sensor, GSM/GPRS, BT
- 9V - 36V DC Input Smarter Vehicle Power Ignition
- 4 Channel D1 Resolution@120fps for Analog Camera
- 2 IP Digital Cameras
- Dual Hot Swappable SATA Storage with RAID 0, 1
- 1 x CAN Bus 2.0B (Optional)

### Storage

|             |   |
|-------------|---|
| <b>Type</b> | 2 x 2.5" Drive Bay for SATA Type HDD/SSD, Support RAID 0, 1<br>1 x SATA DOM |
|-------------|---|

### Power Requirement

|                          |   |
|--------------------------|---|
| <b>Power Input</b>       | 9V - 36V DC Power Input   |
| <b>Power Protection</b>  | Automatics Recovery Short Circuit Protection  |
| <b>Power Management</b>  | Vehicle Power Ignition for Variety Vehicle  |
| <b>Power Off Control</b> | Power off Delay Time Setting by BIOS and Software   |
| <b>Battery (UPS)</b>     | Internal Battery Kit for 10 Mins Operating (Optional)<br><b>Patent No. : M447854 - Build-in Battery</b> |

### Environmental & Mechanical

|                            |   |
|----------------------------|---|
| <b>Operating Temp.</b>     | -40 ~ 70°C (SSD), ambient w/ air  |
| <b>Storage Temp.</b>       | -40 ~ 80°C  |
| <b>Relative Humidity</b>   | 10 ~ 95% (non-condensing)   |
| <b>Vibration(random)</b>   | 2.5g@5~500 Hz with SSD  |
| <b>Vibration Operating</b> | MIL-STD-810G, Method 514.5, Category 20,<br>Ground Vehicle-Highway, EN61373                         |
| <b>Truck Storage</b>       | MIL-STD-810G, Method 514.5, Category 24, Integrity Test   |
| <b>Shock</b>               | Operating: MIL-STD-810G, Method 516.5, Procedure I,<br>Trucks and semi-trailers=15G (11ms) with SSD |
| <b>Crash Hazard</b>        | MIL-STD-810G, Method 516.5, Procedure V,<br>Ground equipment=100g                                   |
| <b>Construction</b>        | Aluminum Alloy  |
| <b>Weight</b>              | 1780 g (Barebone)   |
| <b>Dimensions</b>          | 250 x 150 x 55 mm   |
| <b>Certifications</b>      | CE, FCC Class A, EMark Compliance, EN50155, EN50121   |

### Ordering Information

|                    |   |
|--------------------|---|
| <b>Part Number</b> | VBOX-3610-V4-000  |
| <b>Description</b> | Intel Core i7-5650U Hybrid Mobile DVR Surveillance with<br>4 Channel Camera On-Board Computer |