

## iDS-TP40-16B Traffic Incident Detection Server



### Features and Functions

#### Smart Functions

- GPU architecture with deep-learning algorithm. 2MP/3 MP HD camera connection to detect and analyze multiple traffic incidents, and supports traffic flow statistics.
- Multiple traffic incidents detection: Illegal parking, wrong-way driving, pedestrian, driving on the lane line, illegal lane change, objects dropped down, occupy emergency lane, congestion, flow, roadblock, construction.
- Multiple traffic parameters collection: vehicle type, lane traffic flow, lane vehicle speed, space headway, time headway, lane time occupancy, lane space occupancy, queue length, lane traffic status, etc.

#### Professionalism and Reliability

- Professional embedded hardware and software to guarantee the reliability of system operation.
- Redundant power supply to raise the system stability.
- The normal or hot spare working mode can be configured to N + 1.
- Data network interfaces and management network interfaces to raise the system safety.

#### HD Input

- Up to 16-ch 2MP/3 MP HD cameras connection.
- Live view of the connected cameras.

#### HD Transmission

- 4 self-adaptive 10/100/1000M network interfaces.

#### Various Applications

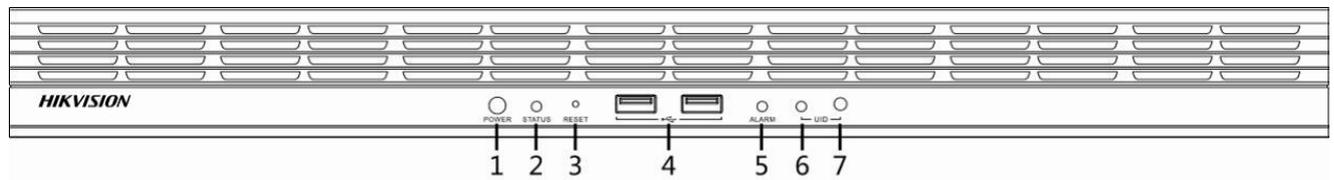
- Centralized management of connected IP cameras, including system configuration, alarm and operation log search and export, software upgrade, etc.
- Time synchronization manually or by NTP.
- One-key startup and shutdown.
- Supports listening mode and uploading data to Hikvision iVMS-8600.



## Specifications

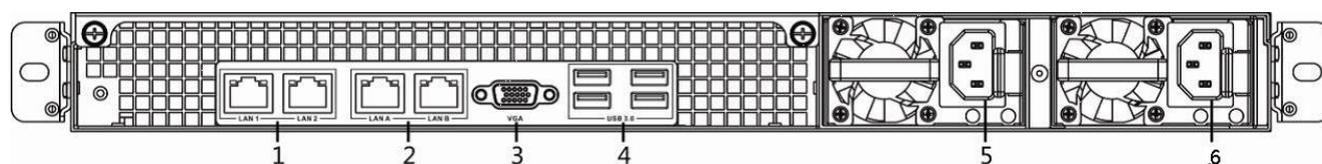
| Model                  |                        | iDS-TP40-16B                                                                       |
|------------------------|------------------------|------------------------------------------------------------------------------------|
| Real Panel Interfaces  | Network interface      | 4 self-adaptive 10/100/1000M network interfaces                                    |
|                        | USB interface          | 4 × USB 3.0                                                                        |
|                        | VGA interface          | 1                                                                                  |
| Front Panel Interfaces | USB interface          | 2 × USB 2.0                                                                        |
|                        | Indicator              | UID indicator, Alarm indicator, Power indicator, Ready indicator                   |
|                        | Button                 | Power on/off, Reboot                                                               |
| X86 Mainboard          | X86 mainboard          | 1                                                                                  |
|                        | Memory                 | 2 × 4 GB memory bank                                                               |
|                        | M-SATA                 | 1 × 32 GB                                                                          |
|                        | SSD                    | 1 × min. 120 GB                                                                    |
| TX1 Board              | TX1 mainboard          | 1 × TX1 baseboard                                                                  |
|                        | TX1 chip               | 16 × TX1 chip                                                                      |
| Others                 | Dimensions (W × D × H) | 438.4 × 591 × 43.6 mm (17.3 × 23.3 × 1.7 inch), standard 19 inch 1U chassis design |
|                        | Power supply           | Hot spare, efficient, 1 + 1 redundant, 800 W                                       |
|                        | Working temperature    | +5 °C to +40 °C (+41 °F to +104 °F)                                                |
|                        | Storage temperature    | -40 °C to +70 °C (-40 °F to +158 °F)                                               |
|                        | Operating humidity     | 10% to 90%                                                                         |
|                        | Storage humidity       | 5% to 95%                                                                          |
|                        | Weight                 | 16 kg (35.3 lb)                                                                    |

## Front Panel Interfaces



| No. | Name                   | Description                                                                                                                                                 |
|-----|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | POWER Button/Indicator | Press the POWER button to start up the server. Hold it for 3s to force shut down the server. The indicator shows solid blue after the server is powered on. |
| 2   | STATUS Indicator       | It indicates the system status. It stays solid blue if the system is normal. It is unlit if the system is abnormal.                                         |
| 3   | Reset Button           | Press it and the server will reboot.                                                                                                                        |
| 4   | USB Interface          | 2 USB 2.0 interfaces, connecting USB devices                                                                                                                |
| 5   | ALARM Indicator        | Solid red indicates the mainboard is abnormal.                                                                                                              |
| 6   | UID Indicator          | It indicates blue if UID is turned on, convenient for quick positioning and recognition of the server.                                                      |
| 7   | UID Button             | Press it to turn on/off the UID indicator.                                                                                                                  |

## Rear Panel Interfaces



| No. | Name                      | Description                                                                           |
|-----|---------------------------|---------------------------------------------------------------------------------------|
| 1   | LAN1/LAN2 Interface       | 2 10/100/1000M network interfaces                                                     |
| 2   | LANA/LANB Interface       | 2 management network interfaces                                                       |
| 3   | VGA Interface             | For debugging                                                                         |
| 4   | USB 3.0 Interface         | 4 USB 3.0 interfaces, connecting USB devices                                          |
| 5   | ALARM Indicator           | Solid red indicates the mainboard is abnormal.                                        |
| 6   | Redundant 1+1 Power Input | For connecting power cord; redundant power supply to realize high system availability |

## Available Models

iDS-TP40-16B

Distributed by



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