# All-in-One Server

# TD-A616E-E

Based on the conception of "All-in-One", TD-A616E-E is a server specially designed for security surveillance application. Its software is installed before delivery, combined the video stream transfer and view and the record storage and playback. Due to its low cost, simple deployment, flexible expansion, powerful performance, good compatibility and high reliability, abundant data storage and strong management capability, it can meet the requirements of various large and medium sized video surveillance systems.

It can be widely used in security cities and intelligent cities, including banking, transportation, public security, enterprise and public institution and so on.
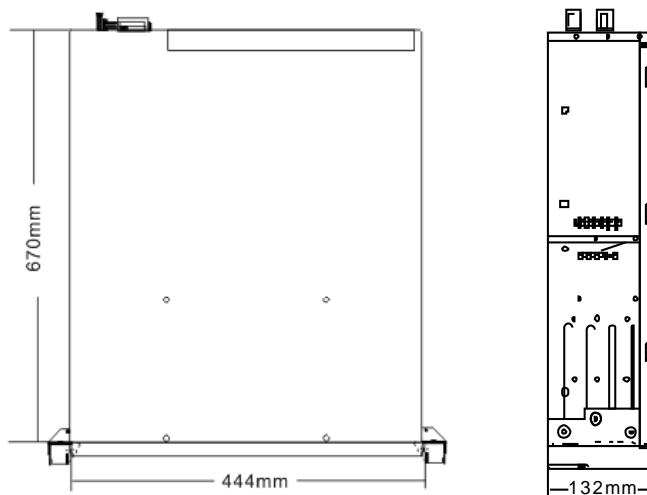
## Features

- High-performance X86 hardware platform, stable and reliable
- Preset software before delivery; All-in-One simple deployment
- Supports the device access of TVT and other famous manufacturers in the industry
- Supports ONVIF protocol
- Supports device auto-report
- Supports adding devices through IP address, IP address segment, URL, domain name and serial number
- Automatically search devices and quickly adding devices
- Supports standard, widescreen and customized screen display modes
- Supports instant playback and alarm preview
- Supports corridor mode
- Supports fisheye mode
- Supports PTZ direction control and focus control; supports setting and calling preset and cruise
- Supports voice monitoring, two-way talk and broadcast
- Supports record search, playback and downloading from
- device and control center
- Supports record search and playback by time, channel, event and tag
- Supports time-slice playback
- Supports record clip and backup; Support backup by time and event
- Supports video search, playback and downloading from SD card of the IPC
- Supports multi-level images and online E-map
- Supports TV wall management, including splicing, PIP, roaming and triggering video on TV wall
- Supports auto-switch plan and camera group on TV wall
- Supports various alarm types and alarm linkages

- Supports multi-level, multi-area and multi-user permission management
- Supports log management, including notices and alarms device's online and offline status
- Supports Android/iOS mobile APP
- Integrated Intel Xeon E3-1220V5 high-performance 4 core processor, up to 8GT/s data transfer rate, 64 bit expansion, I/O acceleration, Turbo, Hyper-Threading Technology
- 4 memory card slots, up to 64GB DDR4-1866/2133MHz ECC
- 2 gigabit Ethernet ports; support I/OA technology; support link aggregation and binding redundancy; support iKVM;IPMI×1
- 12Gbps SAS Expander, 12Gbps RAID card (RAID 0, 1, 5, 6 supported)
- 16 *3.5 inch hot-pluggable HDD slots, up to 256TB
- 3 control expansion slots: 1*PCI-E3.0x16(x8); 1*PCI-E3.0x8; 1*PCE-E3.0x8(x4)
- 550W 1+1 redundant power supply
- Monitoring various status of the storage server, such as connection status, network status, hardware status and so on; judging the fault level according to the buzzer sound; timely recording event information and operation logs of the device; providing full solution of real-time monitor and alarm of the device
- Independent IPMI interface; supports iKVM, remote startup and shutdown and software installation services
- Provide TPM interface which supports TPM standard security chip, so that the device can be protected effectively in case of the illegal user access
- Embedded device access and transfer modules without extra transfer server access

## Specifications

| Model | TD-A616E-E |
|---|---|
| CPU | Intel Core Processor I3 |
| OS | Linux |
| Memory | 8GB DDR4 ECC,up to 64GB DDR4ECC memory |
| HDD | 3.5 inch SATA x 16 (hot-pluggable); built-in 2.5 inch SATA x 2 |
| HDD Installation | Independent HDD bracket |
| Capacity | Up to 256TB (max.16T per HDD) |
| RAID | Hardware RAID; support RAID 0, 1, 5, 6 |
| Expansion | 1*PCI-E3.0x16(x8);1*PCI-E3.0x8;1*PCE-E3.0x8(x4) |
| Network Card | Integrated I210-AT dual gigabit network cards, load balancing and if one is offline, the other will replace |
| IPMI | ASPEED AST2400 BMC, independent IPMI interface; support iKVM |
| Protocol | Support    TCP / UDP / RTSP protocol |
| Search | Built-in index, accurate to second-level |
| Performance | Up to 700Mbps incoming, 700Mbps recording and 96Mbps playback<br>Up to 700Mbps incoming, 700Mbps recording and 96Mbps live view |
| Way of Management | WEB management, seamless access to NVMS |
| Capability of Management | RAID management, record management, system log as well as alarm processing |
| Max. Number of Channel Access | 2048 CH(extensible to 10000CH via the transfer server) |
| Max. Number of Device Access | 500 devices (extensible to 10000CH after it is authorized) |
| Max. Number of Channel Access of Single Transfer Service | 2048CH |
| Max. Number of Device Access of Single Transfer Service | 300 DVRs/NVRs or 500IPCs |
| Max. Decoding Output Number | 128CH |
| Max. Number of Transfer Server Access | 32 |
| Max. Number of Storage Server Access | 32 |
| Max. Number of Channel Access of Third-party protocol | 16(extensible to 10000CH after it is authorized) |
| Max. Number of Device Access of Third-party protocol | 4(extensible to 10000CH after it is authorized) |
| Max. Channel Number of Simultaneous Preview | 100 (for one client/user) |
| Max. Channel Number of Simultaneous Playback | 16 (for one client/user) |
| Max. Number of Views | Up to 64 view plans can be created |
| Max. User Access | Max. 64 users (extensible to 1024 users access after it is authorized) |
| Max. Online Users | 64 users preview simultaneously |
| Security | Supply TPM interface; TPM module installation supported |
| Interface | 1× VGA, 6× USB(4 in the real panel and 2 in the front panel), 2× RJ 45, 1× IPMI,    1× RS 232 |
| Power Supply | 550W 1+1 redundant power supply, 100~240V-7~3.4A /50~60Hz |
| Temperature | Working: 10°C to 35°C; standby: –40°C~+55°C(ambient) |
| Relative Humidity | Working: < 90% RH(35°C) |
| Noise | Working: < 50Dba |
| ESD | Each item conforms to Intel ambient temperature test standard 15KV |

## Dimensions



## Available Accessories

3U/4U common rails