

KX-FDA320R16ST2-PMA

16-bay Embedded Video Storage

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



- · 64-bit high-performance multi-core processor.
- · Max 320-ch IP camera inputs.
- · Max 800 Mbps incoming/recording/forwarding bandwidth.
- · 16 HDDs, SATA, Hot-Swap.
- · Supports RAID 0/1/5/6/10/50/60, Hot spare.
- · Supports video stream direct storage mode and IPSAN storage mode.
- · Supports N+M cluster.
- · Supports Automatic Network Replenishment (ANR).
- · Modular and drawer-like design.

Network

· 1+1 redundant 80PLUS platinum power supply.

System		
Main Processor	64-bit high-performance multi-core processor	
Operating System	Embedded Linux OS	
Operating Interface	Web (PCAPP)	
Controller	Single controller	
Cache	8 GB by default (extendable to 32 GB)	
Al Applications		
Al by Camera	Face detection, face recognition, IVS (abandoned object, missing object, loitering, crowd gathering, parking, fence-crossing, fast moving, tripwire and intrusion), video metadata (human, vehicle, non-motor vehicle), vehicle recognition, people counting (fisheye or people counting camera required), face & body detection, crowd distribution, smart thermal (call detection, visible channel-smoking detection, thermal channel-smoking detection)	
Camera Compatibility		
Thermal	Works with camera for fire alarm, temperature alarm, temperature difference alarm, hot spot, cold spot, smoking and calling	
People Counting	Works with camera for tripwire people counting, regional people counting and queue people counting	
Bullet-PTZ Smart Track	Works with camera for manual tracking, auto tracking, click positioning and select positioning	
Fisheye Dewarp	Supports dewarping for fisheye cameras	
Cluster		
Cluster	N+M	
Audio and Video		
Third-party Camera Access	Onvif, Onvifs, RTSP, Sony, Panasonic, Axis, Arecont, Pelco, Canon, Samsung, Hikvision	
Compression Standard		
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Audio Compression	G.711A; G.711U; PCM; G726	

Network		
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P; GAT1400; iSCSI; FTP; SMB; NFS	
Mobile Phone Access	DMSS	
Interoperability	ONVIF (Profile S); CGI; SDK	
Browser	Chrome; PCAPP; IE9 or higher; Firefox	
Network Mode	NIC binding mode such as multiple-address mode, load balance, fault-tolerance, etc	
Recording Playback		
Multi-channel Playback	Max. 16-channel playback	
Record Mode	Auto record; manual record; search video detection; IO alarm; thermal imaging; intelligent event; all record file	
Storage Method	Internal HDD and network disk	
Backup Method	HDD, peripheral USB storage device	
Playback Function	Play, pause, stop, fast forward, fast backward, reverse play, frame by frame Full-screen, backup (clip; file), snapshot, digital zoom, audio on; off	
Storage		
Video Direct Storage (Private Protocol)	Incoming: 320-channel (bandwidth: 800 Mbps) Recording: 320-channel (bandwidth: 800 Mbps) Outgoing: 320-channel (bandwidth: 800 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)	
Video Direct Storage (Onvif)	Incoming: 320-channel (bandwidth: 800 Mbps) Recording: 320-channel (bandwidth: 800 Mbps) Outgoing: 320-channel (bandwidth: 800 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)	
Video Direct Storage (Auto Register)	Incoming: 320-channel (bandwidth: 800 Mbps) Recording: 320-channel (bandwidth: 800 Mbps) Outgoing: 320-channel (bandwidth: 800 Mbps) Playback: 32-channel (bandwidth: 64 Mbps)	
Video Direct Storage (International	Incoming: 320-channel (bandwidth: 800 Mbps) Recording: 320-channel (bandwidth: 800 Mbps) Outgoing: 320-channel (bandwidth: 800 Mbps)	

Playback: 32-channel (bandwidth: 64 Mbps)

Protocol)



KX-FDA320R16ST2-PMA

16-bay Embedded Video Storage

Design and specifications are subject to change without notice Pictures in the document are for reference only, and the actual product shall prevail

Picture Direct Storage

Incoming: 120-channel (550 KB/picture) Recording: 120-channel (550 KB/picture) Outgoing: 120-channel (550 KB/picture) Playback: 32-channel (550 KB/picture)

Disk Group

iSCSI Supports client and Server

Network Disk Supports client

RAID 0/1/5/6/10/50/60; (with enterprise-grade HDD)

Record Management Supports record control (continuous, event-based, scheduled,

scheduled & event-based).

Storage Pool Yes

IPSAN

RAID

280-channel × 2 Mbps video stream writing and 24-channel × 2

IPSAN Mbps video playback (I/O size of VMS is 64 KB)

Performance 400-channel × 2 Mbps video stream writing and 24-channel × 2

Mbps video playback (I/O size of VMS is 512 KB)

Alarm

General Alarm Motion detect; tampering; IPC external alarm

> IPC offline alarm; storage error; HDD full; video frame loss; SSD exception; IP conflict; MAC conflict; login lock; fan malfunction; no

Anomaly Alarm HDD; network security exception; power exception; disk health

exception; RAID exception; storage pool exception;

temperature alarm; share service

Record; snapshot (full image); alarm uploading; remote device

alarm output;

Alarm Linkage

camera audio; buzzer; log; preset; email, smart tracking and

warning light.

Disarming alarm linkage action by period or one-click

sync disarm config with channels

Port

16 slots,

SATA

Max.18 T/HDD **HDD** Interface hot swapping

support enterprise-grade HDD

eSATA

RS-232 1 port, for debug or COM data transmission

USB 2 ports. 2 USB3.0 ports at the rear panel

HDMI 1 port, only for debug VGA 1 port, only for debug

2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports. (gigabit Network Port

electrica port)

Power 1+1 redundant power

Network Port 4 × 1-GbE LAN ports (optional)

2 × 10-GbE optical fiber ports (optional) Extension

General 100-240 VAC 50-60 Hz, 6.3A-3.5A **Power Supply** Power <60 W (without HDD, idling) Consumption <220 W (all HDDs connected) Intelligent speed regulation fan Fan Net Weight 15.5 kg (34.17 lb) Gross Weight 17.2 kg (37.92 lb) Product Chassis: 484.6 mm × 133.2 mm × 473.6 mm (19.08" × 5.24" × **Dimensions** 18.65") (W × L × H) With packaging: 589mm × 619 mm × 290 mm (23.19" × 24.37" × Packaging 11.42") (W × L × H) Dimensions Protection box: 605 mm × 635 mm × 312 mm (23.82" × 25.00" × 12.28") (W × L × H) Operating 0 °C to 45 °C (+32 °F to +113 °F) Temperature Operating 10%-80% (RH), non-condensing Humidity

Dimensions (mm[inch])

5000 m (16404.20 ft)

Standard 19 inch rack

Operating

Installation

Altitude

