KBVISION

KX-F1024R85ST

85-bay Embedded Video Storage

· 64-bit high-performance multi-core processor.
· Max 1024-ch IP camera inputs.
· Max 2048 Mbps incoming/recording/forwarding bandwidth.
· 85 bays, SAS/SATA, Hot-Swap.
· Supports RAID 0/1/5/6/10/50/60, JRAID, JBOD, 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.
· 2+1 redundant 80PLUS platinum power supply.

System	
Main Processor	64-bit multi-core processor
Operating System	Embedded Linux
Operation Interface	Web
Controller	Single controller
RAM	16 GB, expandable up to 128 GB
Redundant Power	2+1

System	
Network Port	1×1GbE management port; 4×1GbE LAN ports
USB	2×USB3.0
eSATA	1×eSATA
RS-232	1×DB9

Internal Interface	
M.2 SSD Port	2×NVMe SSD ports
PCI-E Port	2×PCI-E X8

Disk	
Number of Disk	85
Disk Compatibility	1 TB; 2 TB; 3 TB; 4 TB; 6 TB; 8 TB; 10 TB; 12 TB; 14 TB; 16 TB; 18TB 2.5-inch and 3.5-inch HDD Support simultaneously connectng to SATA/SAS/SSD
Installation	Independent disk tray
Hot Swapping	Yes
Disk Mode	RAID 0/1/5/6/10/50/60; JRAID; JBOD; hot-spare
Disk Management	Non-working disks automatic sleep
Disk Processing	Bad sector mapping
Disk Status Detection	Inspection before use and during use

Performance	
Video Direct Storage (Private Protocol)	Up to 1024-channel (2048 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback
Video Direct Storage (Onvif)	Up to 1024-channel (2048 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback
Video Direct Storage (Auto Register)	Up to 1024-channel (2048 Mbps) access, storage, and forwarding; 32-channel (64 Mbps) online playback
Picture Direct Storage	Up to 1024-channel access, storage, and forwarding (250 KB/Picture)
IPSAN Performance	Write-through: 900 Mbps Write-back: 1,200 Mbps

Function	
IPSAN Mode	Yes
IPSAN Function	Dynamic online extension of logic volumes
Video Stream Mode	Direct storage
Network Protocol	RTP; RTCP; RTSP; UDP; HTTP; NTP; SNMP; iSCSI; SMB; NFS; FTP
Streaming Media Protocol	ONVIF 19.12
Cluster Service	N+M
Automatic Network Replenishment (ANR)	Videos during network failure upload to EVS automatically afterwards
Network Mode	Link Aggregation, Fault-Tolerance, Load Balance
Quick RAID	Yes
RAID Instant Use	Yes
RAID Rebuild	Self-adaptive rebuilding
RAID-Write Synchronization	Yes
Record Mode	Scheduled, manual, motion-triggered and alarm triggered
Recording Playback	Web playback, concentrated playback, slice playback, synchronous playback Search video by second Adjustable playback speed
Recording Backup	Back up video through USB, network, and eSATA
AI by Camera	Access by cameras with encoding formats of MPEG4, MJPEG, H.264, H.265, and SVAC Access by mult-sensor cameras, thermal cameras, and panoramic cameras

General	
Power Supply	100-127 V/200-240 V AC, 50/60 Hz, 16 A/8 A

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Fan	Intelligent speed regulation and hot swapping
Power Consumption	< 1600 W (include disks)
Operating Temperature	0 °C to +35 °C (+32 °F to +95 °F)
Operating Humidity	10%–80% (RH) (non-condensation)
Storage Temperature	−20 °C to +70 °C (−4 °F to +158 °F)
Storage Humidity	5%–90% (RH) (non-condensation)
Operating Altitude	≤3000 m (9842.52 ft)
Case	4U
Product Dimensions	With hanger: 482.6 mm x 177 mm x 932.9 mm (19"" × 6.96"" × 36.73"") (W × H × D) Without hanger: 446 mm x 177 mm x 932.9 mm (17.56"" × 6.96"" × 36.73"") (W × H × D)
Net Weight	55.2 kg (121.70 lb)
Gross Weight	75 kg (165.35 lb)
Installation	Standard 19 inch rack, with slide rail

General