Zero Data Loss & Nonstop Video Backup

Archive & Failover Server

The X8024 and X5016 are GVD's Archive Server and Failover Server to ensure system availability and zero data loss on your business floors.

With GVD HA solutions, you won't miss any doubtful events or critical alarms.

The Archive Server backs up from up to 256 channels while a Failover Server can watch over 30 NVRs if any of your NVRs fails.

GVD's redundancy servers are designed for large-scale projects, such as government, homeland security, city surveillance, airports, seaports, mining, offices, factories, campuses, hotels, banks, etc.

- Both Archive Server and Failover Server support cloud architecture
- Single Failover Server can watch over 30 NVRs, in an N+M failover architecture
- Archive Server supports Fast Data Bridge for quick data transfer
- Support Dual-Streaming archiving for limited bandwidth environment and longer time storage

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Key Features

- **Guarantee data availability**

  GVD Archive Server X8024 supports up to 256 IP cameras with extended storage to 680TB. Also, the Archive Server has fast data transfer with flexible backup options: 24x7, scheduled, by key-frame, or dual-streams to meet any enterprise customers' needs.

- **Takeover in no time**

  GVD Failover Server X5016 features N+M failover for fault tolerance and disaster recovery. Best investment, one single X5016 can watch over 30 NVRs and take over a failed NVR within 45 seconds to ensure minimum data loss.

- **Fast data bridge**

  GVD Archive Server comes with industrial-fast SSD to handle large-scale video data from multiple NVRs with hundreds of IP cameras. Superior design to legacy streaming video migration, 2~10 times faster, saves tremendous time for mission-critical customers.
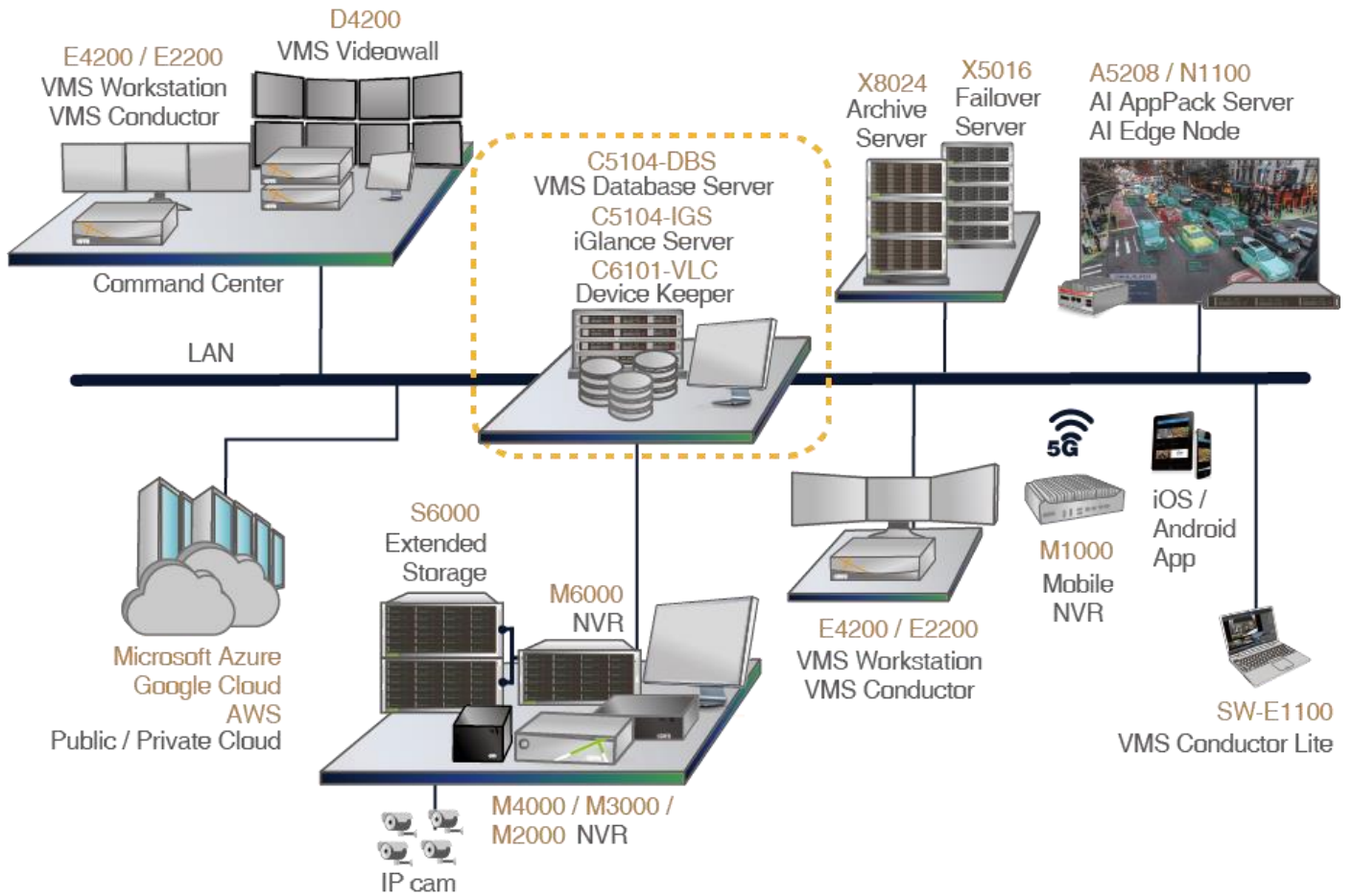
- **Easy management**

  GVD Workstation makes it easy for users to configure their Archive and Failover Servers. Data HA can be ensured in any incident event.

- **Easy project scale-up**

  GVD Archive and Failover Servers are designed with GVD VMS 4.0 Suites, a cloud-based AI video system that supports easy scale-up to overcome any kind of system integration trouble. The 4.0 can stack up to a group of workstations, video walls, NVRs, data servers, storage, 3rd-party systems, and a large number of 100,000 IP cameras.
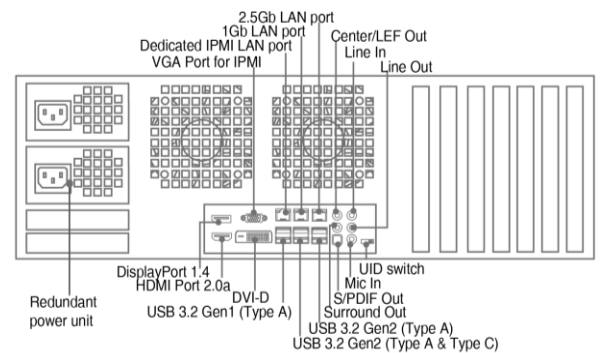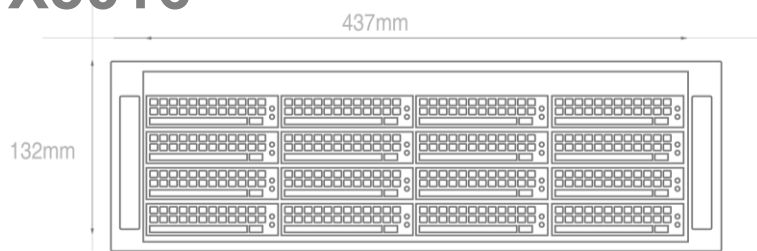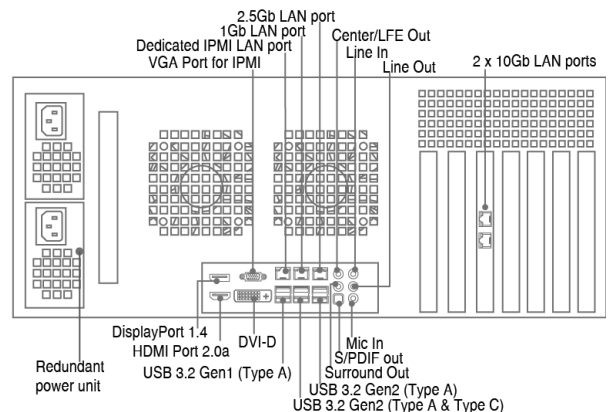
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System architecture

E4200 / E2200
VMS Workstation
VMS Conductor

D4200
VMS Videowall

X8024
Archive
Server

X5016
Failover
Server

A5208 / N1100
AI AppPack Server
AI Edge Node

Command Center

C5104-DBS
VMS Database Server
C5104-IGS
iGlance Server
C6101-VLC
Device Keeper

LAN

Microsoft Azure
Google Cloud
AWS
Public / Private Cloud

S6000
Extended
Storage

M6000
NVR

E4200 / E2200
VMS Workstation
VMS Conductor

M1000
Mobile
NVR

5G

iOS /
Android
App

M4000 / M3000 /
M2000 NVR

IP cam

SW-E1100
VMS Conductor Lite

Hardware dimensions

X5016

437mm

132mm

2.5Gb LAN port
1Gb LAN port
Dedicated IPMI LAN port
VGA Port for IPMI

Center/LEF Out
Line In
Line Out

DisplayPort 1.4
HDMI Port 2.0a
DVI-D
USB 3.2 Gen1 (Type A)

UID switch
Mic In
S/PDIF Out
Surround Out
USB 3.2 Gen2 (Type A)
USB 3.2 Gen2 (Type A & Type C)

Redundant
power unit

X8024

437mm

178mm

2.5Gb LAN port
1Gb LAN port
Dedicated IPMI LAN port
VGA Port for IPMI

Center/LFE Out
Line In
Line Out

2 x 10Gb LAN ports

Status LEDs

HDD tray

DisplayPort 1.4
HDMI Port 2.0a
DVI-D
USB 3.2 Gen1 (Type A)

Mic In
S/PDIF out
Surround Out
USB 3.2 Gen2 (Type A)
USB 3.2 Gen2 (Type A & Type C)

Redundant
power unit

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Specifications

Product	X8024	X5016
Description	Archive Server	Failover Server
System — CPU	Intel® 4 Core	
Memory	16G	
Operating System	Windows® 10 IoT Enterprise	
Watchdog	Software / Hardware watchdogs	
Storage — Interface	3.5" SATA HDD	
HDD trays	24 pcs	16 pcs
Storage capacity	24 x 10TB	16 x 10TB
RAID level	RAID 0, 1, 5, 6, 10, 50, 60	
Display — Interface	1 x VGA (for IPMI)、 1 x DVI-D、 1 x DisplayPort 1.4、 1 x HDMI 2.0a	
Local display resolution	4096 x 2160 **4K** Monitor	
Interface — USB port	Rear: 2 x USB3.2 Gen1 (Type A); 4 x USB3.2 Gen2 (1 x Type C & 3 x Type A)	
Audio port	Rear: 1 x Center/LFE Out、 1 x Surround Out、 1 x S/PDIF Out、 1 x Line In、 1 x Line Out、 1 x Mic In	
Network — LAN port	1 x 1Gb LAN; 1 x 2.5Gb LAN; 2 x 10Gb LAN	2 x 1Gb LAN
Power — Voltage	100~240 Vac, 50-60Hz	
Redundancy	Yes	
PSU	1200W	1000W
Consumption (w/o HDDs)	237W	212W
Environment — Operating temperature	5°C~35°C (41°F~95°F)	
Storage temperature	-40°C~70°C (-40°F~158°F)	
Operating humidity	8%~90%	
Storage humidity	5%~95%	
Mechanic — Chassis	4U rackmount	3U rackmount
Certification	CE, FCC	
Size (W)x(H)x(D)	437x178x660 mm	437x132x647 mm
Net weight (w/o HDD)	34 kg	32.7 kg

Software	X8024	X5016
Video Archiving — IP camera license support	128-256	128
Network support	Fiber, Giga RJ45, network teaming	Giga RJ45, network teaming
Cam resolution support	D1, 1.3~20 megapixel	
Archiving mode	Full-time, by schedule, key-frame, dual-channel	N/A
Recording mode	N/A	Full-time
Recording rate	N/A	Max. 384Mbps
Video codec	H.265、 H.264	
Protocol	ONVIF Profile S, IPv4, TCP/IP, UDP, HTTP, HTTPs, SMTP, SNMPv2, DNS, DDNS, DHCP, NTP, ARP, ICMP, FTP, RTSP/RTP/RTCP, IGMPv3, UPnP, CIFS, NFS	
System Support — E4200 VMS Workstation	Yes	
C5104 VMS Database Server	Yes	
C6101 Device Keeper	Yes	