Vess

Vess A8120 `Data Sheet`

Highlights

‣ Rack-mount 1U form factor with dual CPU platform design.

‣ Throughput of up to 1000 Mbit/s achievable with additional PROMISE storage hardware (Vess R3600).

‣ Storage Server with multiple deployment options: Management Server / Recording Server / IVA (Intelligent Video Analytics) Server.

‣ Built from bottom up for surveillance ecosystem for top VMS vendors.

‣ Cybersecurity vigilance and perpetual rigorous security testing. Strict adherence to Secure SDCL, Open Source Security, and NDAA compliance are built-in.

‣ 24/7 PROMISE eSupport portal and phone support available.

‣ **PROMISE SmartBoost™**
  For robust, error free performance in video recording applications

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Versatile

The Vess A8120 can perform one of three roles on the surveillance network: Management Server, Recording Server or IVA (Intelligent Video Analytics) Server. As a management server, the Vess A8120 can be independent management server which manages over 300 cameras/devices over surveillance network. As a recording server, the Vess A8120 can run users' preferred recording software and have recorded video data stored within the Vess A8120 or PROMISE storage hardware for future playback.
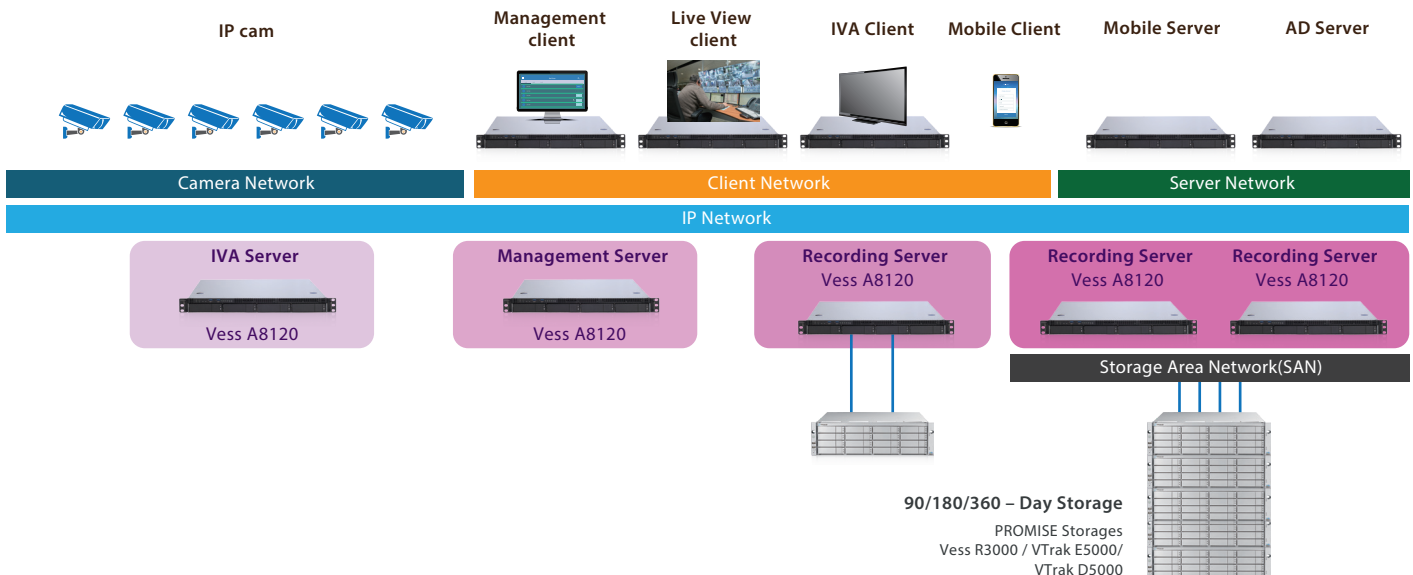
Scalable

Vess A8120 is a 1U 4-bay rack mounted hardware solution that enables storage capacity scalable to be easily scaled up using additional storage hardware. PROMISE Vess R3600 and Vess J3600 have been certified and tested with Vess A8120. Vess R3600 and up to 12 Vess J3600 JBODs could add capacity of up to 208 HDDs to a Vess A8120 deployment.

Built for Surveillance

Vess A8120 is the successor of the best selling Vess A6120 Series, recognized in the industry for operating reliability and performance in surveillance projects worldwide. For most of those years, PROMISE has worked closely with major VMS vendors to incorporate storage management features into their software.

Security

Vess A8120 undergoes vigorous security testing, including strict adherence to Secure SDCL, Open Source Security, and NDAA compliance. And if you have any storage related problems the PROMISE tech support team and sales staff is available 24/7 to help workout the issue.

| IP cam | Management client | Live View client | IVA Client | Mobile Client | Mobile Server | AD Server |

Camera Network | **Client Network** | **Server Network**

IP Network

| IVA Server | Management Server | Recording Server | Recording Server | Recording Server |
| Vess A8120 | Vess A8120 | Vess A8120 | Vess A8120 | Vess A8120 |

Storage Area Network(SAN)

90/180/360 – Day Storage
PROMISE Storages
Vess R3000 / VTrak E5000/
VTrak D5000

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visit **www.promise.com** for more information on PROMISE products

Technical Specifications

Vess A8120	
Model	
General Information	
Form Factor	1U 19"Rackmount
Number of Bays	4 (front)
Drive Support	4 x 3.5" (hot-swap) + 2 x 2.5" (internal fixed)**
OS SSD (M.2 or 2.5")	Options for OS-boot RAID or non-RAID
HDD Type	Enterprise SATA HDD or SATA SSD (Option SAS HDD***)
Processor	Intel Xeon® Gen II Scalable Silver, Optional for Dual CPU
Memory	16G default; Max.256G (Single CPU) or 512G (Dual CPU)
External Storage Option	iSCSI & NAS
Throughtput	1000Mbps
Interface	
NIC Port	1GbE Lan Ports x 4 10 / 100 / 1000 Management Port x 1 (Optional 10Gbe Ports)
USB Port	USB 3.0 Ports (Front panel) x2 USB 3.0 Ports (I/O panel) x 2
PCI Express Port	PCIe Gen3-16x2 (1 from CPU0, 1 from CPU1)
Graphic Port	D-Sub (VGA onboard) x 1
Serial Port	N/A
RAID Operation	
RAID Level	Intel RAID 0,1,5,10
Hot Spare	Support
Software Highlights	
Supported OS	Microsoft® Windows Server 2019
SMARTBOOST™ Technologies	SMARTBOOST™ Storage
Management Tool	BMC Controller AST2500 IPMI Supported / Dedicated GLAN
Physical Information	
Dimension (H x W x D, mm)	43.4mm x 430.0mm x 625.0mm
Weight	20.5kg w/o drives / 24.5kg w/drives
AC Input	100-127Vac, 200-240Vac, 180-300Vdc
Current (Maximum)	8.8A@100-127Vac @full load / 4.3A@200-240Vac @full load / 5A@180-300Vdc @full load
Power Supply	Redundant 750W for each power
Hot Swap	HDD Module / PSU Module
Environment	
Temperature Range	Operation Temperature:5˚C-40˚C
Green Certificate	Efficiency 80-PLUS Platinum
Warranty and Support	
Warranty	3-years standard warranty, optional extended warranty, and on-site parts replacement program (PROMISE ServicePlus) available.
Support	24/7 PROMISE eSupport Portal (support.promise.com), optional 24/7 phone and email support available.

** 2 x 2.5" (internal fixed) drive can be either OS drive or data drive.
** 2.5" drives and 3.5" drivers cannot be mixed into the same disk array.
*** Needs to use extra of Hardware RAID card