PROMISE TECHNOLOGY

Vess

Vess A3120 `Data Sheet`

SMART BOOST
The hidden force.

Features

▸ **Optimized for Surveillance**
Storage appliance optimized for IP video surveillance.

▸ **Small Installation & SMB**
Ideal for less than 64ch full-HD IP cameras, perfect for banking, retail, prison, hotel, and more.

▸ **Easy to Administer & Maintain**
Hot swappable drive bays, and One Plug Auto Service (OPAS) ensure Vess is easy to administer and maintain.

PROMISE Alliance Partners

aimetis — a Senstar company | AXIS COMMUNICATIONS | axxonsoft — EXPERIENCE THE NEXT® | BOSCH — Invented for life | digifort

Genetec | milestone | nx | OnSSI | See Tec — An OnSSI Company | SONY

More Flexible Deployment with Linux OS Supported

Linux users now have more options for their surveillance system deployment. Promise Vess A Series supports Linux distributions on select Vess A models for surveillance networks running Linux-based VMS in the back-end system(*).

The supported Linux distributions is listed on the datasheet and please contact your channel partners if you need others.

Optimized for Video Surveillance

PROMISE proprietary SMARTBOOST™ Technology provides the most stable and high performance storage solution for your system, with the best C/P ratio. Promise SMARTBOOST™ Technology significantly improves performance that is otherwise limited by storage equipment bottlenecks.

Storage Appliances + Client Viewer provides Wider Applications

PROMISE Vess A3120 is a Storage Appliance for SMB/small installation video surveillance recording. It includes a Client Viewer for applications that require 24/7 monitoring. Certified for several popular VMS, the Vess A3120 is a good fit whatever your software preference.

Built-In GPU for better IVA Performance

Vess A3120 uses built-in GPU, Intel Media SDK and thoroughly tested Graphic card implementation to speed up the graphic card performance and other processing. Intelligent Video Analytics (IVA) places increased performance demands on surveillance systems; Vess A3120 handles basic recording AND better performing IVA tasks simultaneously.

4K Resolution Streaming Supported

4K camera support is an essential feature for areas that require high resolution camera monitoring. The Vess A3120 features 4K camera streaming for local display to provide high definition imaging.

Reduce the complexity of Maintenance by OPAS

One Plug Auto Service (OPAS), a feature unique to Promise's video surveillance solutions, offers user convenience, reduced complexity, lower maintenance cost and streamlined technical support. OPAS enables easily collection of the logs and data used by the Promise support team for system analysis.

Technical Specifications

Vess A3120	
Model	

General Information	
Camera Range[1]	64
Form Factor	1U, 19" Rackmount
Number Of Drives	4 Drives (3.5")
Drive Type	6Gbs SATA @ 3.5”
# of Controllers	Single
System Processor	Intel® Core™ i3-7101E
System Memory	4GB x 2 Default (Max 32GB)
I/O Interface	2 x Gigabit Ethernet
Internal Storage (M.2)	128GB
Storage Expansion	Optional Vess SAS and iSCSI Storage
Max # of HDDs Supported	Up to 112 drives through iSCSI/SAS JBOD expansion

Other Interfaces	
# of USB Ports	5 x USB 3.0, 2 x USB 2.0
PCI Express Ports	1 x 8-lane Gen3
Graphics	1 x VGA, 1x HDMI, 1x Display Port
Serial Interfaces	1 x Serial Port
Audio I/O	3 x 3.5mm Audio Jack and SPDIF

RAID Operational Feature	
RAID Levels	0, 1, 1E, 3, 5, 6, 10, Any combination can exist at the same time
Hot Spares	Multiple global or dedicated hot-spare drives with revertible option
Max. LUNs per System/Array	256/32

Software	
OS Supported (64-bit)	Windows 10, UBUNTU 18.04
Management Tools	Graphical UI/SNMP via Ethernet, CLI/CLU via Ethernet or Graphics, OPAS Service via USB, SDK or API for Integration
Appliance Mode	Surveillance Optimization @ Arrays in Normal and Degrade
Event Notification	Email, SNMP, Buzzer, LEDs

System Information	
AC Input	100 ~ 240 VAC, 47 ~ 63Hz
Current (Maximum)	7A
Power Supply	350W Single ATX
Temperature	5° ~ 40℃ (-40° ~ 60℃ non-operational)
Dimensions (H x W x D)	44.2 x 446.4 x 398 mm
Weight	System W/O HDD: 6.48 kg System W/ HDD: 9.16 kg
Safety/EMI	CE, FCC, VCCI, RCM,(EMI Class A), cULus

Warranty and Support	
Warranty	3 year limited warranty
Optional Accessories	Sliding Rail, 4/8/16 GB DDR Memory

[1] The ideal camera ranges were output of fully populated enclosure by pure recording and 8GB memory under 30FPS, H.264, 5Mbps Bitrate and 1080P resolution
*The final spec may vary without further notice, please check with Promise website for the latest information

www.promise.com