



## Vess A3120 [Data Sheet](#)



### 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



### 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                           |                                  |
| <b>General Information</b>      |                                                                                                                    |
| Camera Range <sup>1</sup>       | 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™ i3-9100E                                                                                              |
| System Memory                   | 4GB x 2 Default (Max 64GB)                                                                                         |
| 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                                                                  |
| <b>Other Interfaces</b>         |                                                                                                                    |
| # of USB Ports                  | 4 x USB 3.1 Gen2, 2 x USB 3.0, 2 USB2.0                                                                            |
| PCI Express Ports               | 1 x 8-lane Gen3                                                                                                    |
| Graphics                        | 1 x VGA, 1x HDMI, 1x Display Port                                                                                  |
| Audio I/O                       | 3 x 3.5mm Audio Jack and SPDIF                                                                                     |
| <b>RAID Operational Feature</b> |                                                                                                                    |
| 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                                                                                                             |
| <b>Software</b>                 |                                                                                                                    |
| OS Supported (64-bit)           | Windows Server 2019, 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 Degraded                                                          |
| Event Notification              | Email, SNMP, Buzzer, LEDs                                                                                          |
| <b>System Information</b>       |                                                                                                                    |
| AC Input                        | 100 ~ 240 VAC, 47 ~ 63Hz                                                                                           |
| Current (Maximum)               | 7A                                                                                                                 |
| Power Supply                    | 350W Single ATX                                                                                                    |
| Temperature                     | 5° ~ 40°C (-40° ~ 60°C non-operational)                                                                            |
| Dimensions (H x W x D)          | 44.2 x 446.4 x 398 mm                                                                                              |
| Weight                          | System W/O HDD: 6.48 kg<br>System W/ HDD: 9.16 kg                                                                  |
| Safety/EMI                      | BSMI, CE, CB, FCC, VCCI, RCM, (EMI Class A) <span style="float: right;">VES0571</span>                             |
| <b>Warranty and Support</b>     |                                                                                                                    |
| Warranty                        | 3 year limited warranty                                                                                            |
| Optional Accessories            | Sliding Rail, 4/8/16 GB DDR Memory                                                                                 |

<sup>1</sup> 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

Contact us



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