Vess | Data Sheet

Vess A3120P

SMART BOOST
The hidden force.

Boost Your VMS with 4K Performance

Certified for popular VMS, including Linux-based VMS, the Vess A3120P is a good fit whatever your software preference. PROMISE proprietary SMARTBOOST™ Technology significantly improves performance and removes bottlenecks that occur on non-specialized storage equipment.

Built-in GPU simultaneously handles basic recording AND better performance of IVA tasks. Support for 4K camera streaming provides high definition imaging for local playback.

Other proprietary software enables expedited system analysis from the PROMISE support team.

Highlights

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 SmartBoost™
For robust, error free performance in video recording applications.

Technical Specifications

Model	Vess A3120P

General Information

Camera Range[1]	64
Form Factor	1U, 19" Rackmount
Number Of Drives	4 Drives
Drive Type	Hot Swappable 3.5" Enterprise SATA HDD 6Gbs. Optional 2.5" Enterprise SATA SSD
Internal Storage	M.2 SSD 128GB (Standard) or M.2 128GBx2 OS RAID (Optional)"
System Processor	Intel® Core™ i3-9100E
System Memory	2 x 8GB DDR4 Default (Max 64GB)"
Storage Expansion	Optional PROMISE Vess R and Vess J series via iSCSI

Interfaces

NIC Port	2 x Gigabit Ethernet
USB Port	Front: 1 x USB 3.0, Back: 4 x USB 3.0, 2 x USB 2.0
PCI Express Ports	1 x PCIe3.0 x8 (available only when OS RAID card is not present)
Graphic Interface	1 x D-sub VGA, 1 x Display Port, 1 x HDMI*
Audio I/O	3 x 3.5mm Audio Jack
Optical S/PDIF	Yes

RAID Operational Feature

RAID Levels	0, 1, 1E, 3, 5, 6, 10 (0+1)
Hot Spares	Hot-spare drives with revertible option

Software

OS Supported (64-bit)	Windows 11, Windows Server 2022
Management Tools	Graphical UI/SNMP via Ethernet, CLI via Ethernet or Graphics, OPAS Service via USB, SDK or API for Integration
Optimization Technologies	SMARTBOOST(TM) Storage for Video Surveillance optimization
Event Notifcation	Email, SNMP (V1/V2/V3), Buzzer, LEDs

System Information

AC Input	100 ~ 240 VAC, 60 ~ 50Hz
Current (Maximum)	4-2A@ 100-240Vac @full load
Power Supply	250W 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 / 1.74" x 17.57" x 15.67"
Weight	W/o HDD: ~6.48 kg (~14.29 lbs) W/ HDD: ~9.16 kg (~20.19 lbs)

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.

[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 advance notice. Please check PROMISE website for the updated information.

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