



Data Sheet

Vess A8340



SMART BOOST **GREEN BOOST**
The hidden force. The hidden force.

"GREENBOOST" is the name of Promise Technology's dynamic power optimization technology.

Engineered for Demanding Surveillance Workloads

The Vess A8340 is purpose-built to meet the high-throughput storage demands of video surveillance and Intelligent Video Analytics (IVA). A pioneer Intel® Xeon® 6 generation product that is configurable with Intel® Xeon® CPU or GPU card, the system is optimized for AI workloads and compute-intensive analytics.

Powered by industry-proven SmartBoost™ technology, it delivers reliable, high-performance video recording and playback—without dropped frames. GreenBoost™ further enhances efficiency by reducing power consumption, noise, and thermal output.

Storage capacity scales up to multiple petabytes with support for Vess R Series and Vess JBOD expansions. Seamless integration with leading VMS and IVA platforms ensures simplified deployment and centralized management of large surveillance environments.

Highlights

- | **Intelligent Video Analytics (IVA)**
Capabilities to enhance real-time monitoring applications
- | **High Performance GPU Card**
Options available for IVA or other processing-intensive applications
- | **Expansion-Ready**
iSCSI connection to PROMISE Vess R/J storage hardware systems for massive storage capacity potential
- | **Intel® Xeon® 6 generation Scalable CPU**
Including dual CPU option to seamlessly scale to support immediate responsiveness and diverse performance requirements
- | **Management**
Easy-to-use WebPam management interface reduces administration time
- | **PROMISE SmartBoost™**
For robust, error free performance in video recording applications.

Technical Specifications

Model Vess A8340

General Information

Form Factor	3U Rackmount
Number of Drives	16x 3.5" SATA
OS Storage	512GB m.2 PCIe 4.0 x4 2280 (Optional: OS RAID 2x 512GB m.2 SATA)
CPU	Single Intel® Xeon® 6505P Processor (Optional: Dual Intel® Xeon® 6 processors)
System Memory	2x 16GB DDR5 RDIMM ECC DIMM RAM(Max: 16 DIMM slots [8 per CPU])

Interfaces

I/O interface	2x 10GbE Base-T, 2x 1GbE Base-T
IPMI interface	1x 1GbE
USB Port	2x USB 3.2 Gen1 (rear), 2x USB 3.2 Gen1 (front)
PCI Express Port	6x PCIe Gen 5 x16 slots,
Graphic Interface	1x D-Sub VGA
Graphic Card Support	Single CPU max: 2x FLFH Single slot or 1x FLFH Dual Slot Dual CPU max: 4x FLFH Single slot or 2x FLFH Dual Slot

RAID Operational Feature

RAID Levels	PromiseRAID 0, 1, 1E, 5, 6, 10, 50, 60(Any combination can be configured simultaneously)
Hot Spares	Multiple global or dedicated hot-spare drives with revertible option

Software

OS Supported (64-bit)	Windows 11 Pro, WS2022, WS2025, Rocky Linux 9.x, Ubuntu 24.04
Management Tools	WebPAM ProE Graphical UI, SNMP, CLI via Graphics, OPAS Service via USB, IPMI
Optimization Technologies	SMARTBOOST™ Storage for Video Surveillance optimization
Event Notification	Email, SNMP (V1/V2/V3), Buzzer, LEDs

System Information

AC Input	AC 100-240V, 50-60Hz, 12-7A
Power Supply	Redundant 1600W 80 Plus Platinum
Hot Swap	Drive Module / PSU Module
Dimensions (H x W x D)	133 x 484.2 x 720 mm

Environment

Temperature	5° ~ 35°C (-40° ~ 60°C non-operational)
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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.

Please note that product specifications may change without prior notice. In case of discrepancy, the English datasheet takes precedence.

Contact us



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