



Data Sheet

Vess A8110



SMART BOOST
The hidden force.

Secure and Versatile: Built for Surveillance

The Vess A8110 performs multiple key roles within your surveillance network: Management, Recording, and Archiving, Directory and Database. It can manage over 250 cameras and devices. Run your preferred VMS software for recording, archiving, and playback, or manage the whole setup - all from a single, adaptable platform.

Highlights

- | Rack-mount 1U form factor with dual Intel® Xeon® 4/5th Gen CPU platform design.
- | High throughput achievable with additional PROMISE storage hardware (Vess R3600).
- | Built from bottom up for surveillance ecosystem for top VMS vendors.
- | Cybersecurity vigilance and perpetual rigorous security testing. Strict adherence to Secure SD CL, Open-Source Security, and NDAA compliance are built-in.
- | PROMISE SmartBoost™
For robust, error free performance in video recording applications.

Technical Specifications

Model Vess A8110

General Information

Form Factor	1U 19" Rackmount
Drive Support	4x 2.5" SATA SSD/(HDD) Hot Swappable
System Processor	Single Intel® Xeon® Silver 4410Y Processor (Optional: Dual Intel® Xeon® 4th/5th Scalable processors)
System Memory	2x 16GB DDR5 RDIMM ECC DIMM RAM (Max: 16 DIMM slots [8 per CPU])
Storage Expansion	iSCSI, NAS

Interfaces

I/O interface	2x 10GbE Base-T
IPMI interface	1x 1GbE
USB Port	3x USB 3.2 Gen1 (2x rear / 1x front)
PCI Express Port	2x PCIe Gen 5 x16 slots, 1x PCIe Gen.5 x16 OCP 3.0
Graphic Interface	1x D-Sub VGA
Serial Port	1x DB-9 COM port

RAID Operational Feature

RAID Levels	PromiseRAID 0, 1, 5, 6, 10
Hot Spares	Supported

Software

Supported OS*	Microsoft Windows Server 2022, Microsoft Windows Server 2025, Microsoft Windows 11 IoT Enterprise, Ubuntu 24.04
Management Tool	WebPAM ProE web UI, SNMP, CLI, OPAS, IPMI
Optimization Technologies	SMARTBOOST™ Storage for Video Surveillance optimization
Event Notification	Email, SNMP, Buzzer, LEDs

System Information

AC Input	AC 100-240V, 60~50Hz /12-6A
Power Supply	Redundant 850W 80 plus Platinum
Temperature	10° C ~ 35° C (50° F~ 95° F)
Dimensions	26.77" x 17.26" x 1.69" (680 x 438.5 x 43mm)
Weight	10.5kg (23.5 lbs) Net / 20 kg (44 lbs) Gross
Hot Swap	Drive Module / PSU Module

Environment

Certificate	RoHS 6/6 Compliant, FCC (SDoC), CE (DoC), CB/LVD, RCM, VCCI, BSMI
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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.

*Currently Windows Server 2022 is supported. Additional operating systems are released periodically without prior notice.

Contact us



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