

# SMAVIA Enterprise Storage Server

Server, 3RU Rack-Mount, 2× CPUs with 6 Cores, 32 GB DDR3 RAM, 2× PSUs



Up to 120 Channels

Up to 636 TB Storage

MegaRAID

Redundant PSUs

The **SMAVIA Enterprise Storage Server** is equipped with two powerful CPUs and 32 GB DDR3 RAM. Together with the included hypervisor software **VMWare ESXi<sup>1)</sup>** and the optional videoIP software **SMAVIA Recording Server VM**, it is the ideal platform for the recording of **up to 120 Full HD video channels**.

The **SMAVIA Enterprise Storage Server** is factory equipped with 16 hard drives, which already allows for a storage capacity of up to 128 TB. In addition, it can be extended with two **SMAVIA Enterprise JBODs** to a storage capacity of **up to 848 TB**.

The **SMAVIA Enterprise Storage Server** is designed for installation in a 19" rack. The required mounting rails are included.

## Features

- VMWare ESXi 5.5 hypervisor software on flash drive
- Virtual machine with software for hardware monitoring included
- SMAVIA Recording Server VM software optional
- Two powerful CPUs and 32 GB DDR3 RAM
- Frames for up to 16× SAS hard disk drives integrated<sup>2)</sup>
- Packages with 16× 2000, 4000, 6000 or 8000 GB SAS hard disk drives available<sup>2)</sup>
- Storage capacity expandable with JBOD storage systems to a total of 848 TB
- MegaRAID SAS RAID controller for internal hard drives and up to two JBOD systems included
- MegaRAID SAS RAID controller equipped with battery backup unit (BBU)<sup>3)</sup>
- Two highly efficient (80PLUS Gold) and redundant power supply units
- Solid 3 RU rack-mount housing with mounting rails for the installation in a 19" rack

### Hardware

<b>004958</b>	<b>SMAVIA Enterprise Storage Server</b> Server, 3RU rack-mount, 2× CPUs with 6 cores, 32GB DDR3 RAM, 2× power supply units, VMWare ESXi included, 16× hard disk drives separately available
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### Software

<b>004978</b>	<b>SMAVIA Recording Server VM<sup>4)</sup></b> License for the operation of one SMAVIA Recording Server VM as virtual machine (one instance on VMWare ESXi) with 24 channel licenses for the recording of Dallmeier HD network cameras or Panomera® Channels, ready-to run image on CD and dongle included
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### Services

<b>005554</b>	<b>System Setup (VM Server)</b> Assembly (memory modules, controller, firmware), RAID system setup, installation and update of the operating system including drivers, software installation, system tests (run-in), FAT System Customizing
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1) VMware is a trademark or registered trademark of VMware, Inc. headquartered in Palo Alto, California, USA  
 2) The server has to be equipped ex factory with 16 hard disk drives in order to ensure the required storage speed.  
 3) The Battery Backup Unit (BBU) has to be replaced after 36 months. The BBU is essential for the proper operation of the RAID controller.  
 4) Note the corresponding data sheet and the already included licenses (e.g. unlimited access, Enterprise maintenance license, recording of 3rd party cameras, PRemote-HD, camera sabotage protection, multicast recording, real-time recording).

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Options Hardware	
005555	<p><b>Mounting of a HDD Package (VM Server)</b> Mounting of a HDD package, function, long-term-, and final test, acceptance and approval included</p>
005556	<p><b>HDD Package 16× 2000 GB, SAS, 3.5"</b> HDD package for SMAVIA Enterprise Storage Server, 32TB gross capacity, 28TB net capacity (RAID 5)</p> 
005557	<p><b>HDD Package 16× 4000 GB, SAS, 3.5"</b> HDD package for SMAVIA Enterprise Storage Server, 64TB gross capacity, 56TB net capacity (RAID 5)</p> 
005558	<p><b>HDD Package 16× 6000 GB, SAS, 3.5"</b> HDD package for SMAVIA Enterprise Storage Server, 96TB gross capacity, 84TB net capacity (RAID 5)</p> 
005826	<p><b>HDD Package 16× 8000 GB, SAS, 3.5"</b> HDD package for SMAVIA Enterprise Storage Server, 128TB gross capacity, 112TB net capacity (RAID 5)</p> 
004956	<p><b>DPM-1200W</b> Power supply module 1200 W, 110/240 V AC, 50/60 Hz</p> 
004957	<p><b>Network Adapter Card 10 GBit</b> Network adapter card, 2× SFP+ ports, 10GBase-T, PCI Express</p> 
006193	<p><b>BBU-08 for MegaRAID SAS Controller<sup>5)</sup></b> Battery Backup Unit (BBU) for the power supply of the cache on the RAID Controller Board in case of short-term power outages</p> 

5) The Battery Backup Unit (BBU) has to be replaced after 36 months. The BBU is essential for the proper operation of the RAID controller.

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Software	
Hypervisor	VMWare ESXi 5.5
Application	SMAVIA Recording Server VM
Application language	English, German, French, Spanish, Italian (others on request)

Components	
CPU	2× Intel XEON <sup>6)</sup> E5 with 6 cores
Memory	4× 8 GB DDR3
Total bit rate	Up to 720 Mbps (5× 144 Mbps)
Flash module	1× 2 GB (for hypervisor software only)
HDD	16× 3.5" changeable SAS hard disk drive frames integrated 16× 3.5" SAS hard disk drives optional <sup>7)</sup>
RAID type	1× RAID controller, SAS, 1× internal ports, 1× external ports, PCIe 2.0, battery backup unit
RAID level	0, 1, 5, 6, 10, 50, 60
Hot plug	–
Hot swap	Supported
Drive	–
Fan	2× 80 mm, rear side, redundant, Hot-Swap 3× 80 mm, internal, redundant, Hot-Swap

Interfaces	
Monitor OUT	1× D-Sub, 15 pins
USB	2× USB 2.0, front side 2× USB 2.0, rear side
Ethernet	2× RJ45, 10/100/1000 Mbps
IPMI	1× RJ45, 10/100 Mbps (dedicated Intelligent Platform Management Interface V2.0)
COM 1	1× D-SUB, 9 pins, rear side
COM 2	1× D-SUB, 9 pins, front side
LED displays	2× network activity 1× hard disk activity 1× power status 1× power fail 1× system overheat

Electrical Data	
Power supply units	2× highly efficient modules (80PLUS Gold), 1200 W
Redundancy	Yes
Voltage supply	110/240 V AC, 50/60 Hz
Power consumption	Max. 1200 W
Heat power	Max. 4094 BTU/h

Mechanical Data	
Dimensions (W × H × D)	Approx. 437 × 132 × 648 mm (17.2" × 5.2" × 25.5")
Height units	3 RU
Weight	Approx. 9 kg without HDDs (20 lb)

Ambient Data	
Temperature	+ 5°C up to +40°C (41°F – 104°F)
Recommended temperature	+20°C up to + 25°C (68°F – 77°F)
Humidity	5 – 70% RH, non-condensing
Atmospheric load	Dust-free

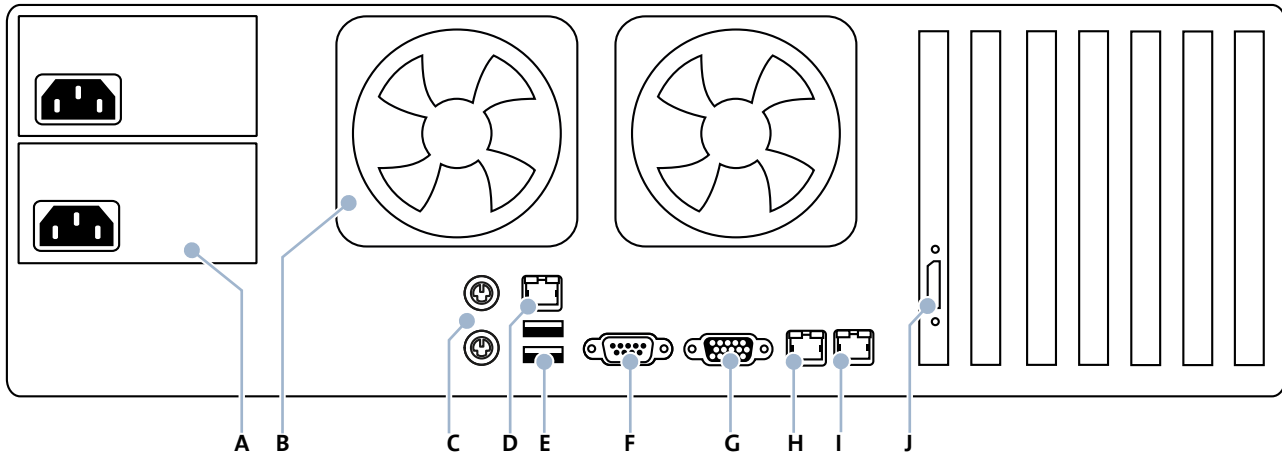
Approvals and Certifications	
Type	CE

6) Intel and XEON are trademarks or registered trademarks of Intel Corporation headquartered in Santa Clara, California, USA  
7) The server has to be equipped ex factory with 16 hard disk drives in order to ensure the required storage speed.

# SMAVIA Enterprise Storage Server

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## Rear Side



**A Power Supply Module 1 and 2**

2× IEC C14 socket, 110/240 V AC, 50/60 Hz

**B System Fan 1 and 2**

2× 80 mm, redundant, Hot-Swap

**C PS/2 Interface**

2×, Mouse, Keyboard

**D IPMI Interface**

RJ45, 10/100 Mbps (IPMI V2.0)

**E USB Interface**

2× USB 2.0, type A

**F COM 1**

D-SUB, 9 pins

**G Monitor OUT**

Mini-D-SUB, 15-pole

**H Ethernet Interface 1**

RJ45, 10/100/1000 Mbps

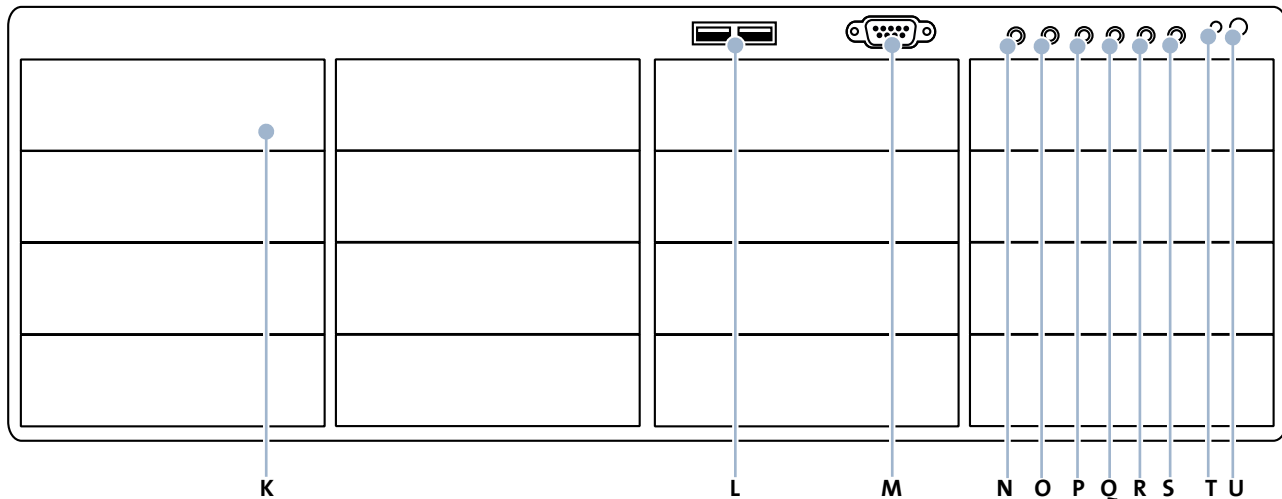
**I Ethernet Interface 2**

RJ45, 10/100/1000 Mbps

**J SAS Interface**

SAS SFF-8088, 26 pins (for SMAVIA Storage JBOD only)

## Front Side



**K Changeable SAS Frames 1–16**

**L USB Interface**

2× USB 2.0, type A

**M COM 2**

D-SUB, 9 pins

**N LED System Overheat**

**O LED Power**

**P LED Network Activity LAN 1**

**Q LED Network Activity LAN 2**

**R LED Hard Disk Activity**

**S LED Power Status**

**T Reset**

**U Mains Switch**