Pegasus 5 Series

E5 Surveillance Servers

- Up to Two Xenon E5 Intel Processors
- Dual Gigabit Network Card
- Up to 36 Hot Swappable HDD bays
- 864 TB Storage with External JBOB
- 1U, 2U, 3U and 4U Rack options
- Integrated 12Gbps Raid Controller
- Battery Backed Raid Controller
- Windows ® Server 2012 on SSD
- Dual Power Supply
- 3 year Warranty

Massive Power

The Pegasus 5 Series is a powerful video surveillance server range that can take up to two Xeon E5 processors which is optimized to work with CCTV recording Software for sensitive & long-term storage of hundreds of IP/Megapixel cameras.

Optimized for Surveillance

The Pegasus 5 Series is engineered to optimize the way the processor, memory, graphics, OS and software technology work together to deliver massive recording power.

Tuned and Tested

All systems have been hardware tested over 24 hours together with more than 60 unique systems settings before leaving the assembling line to make sure that the server will run 24 hours per day, year after year.

Ernitec Smart Backup

Bringing new standards to the market with a specially developed configuration GUI for language selection and network settings that simplifies the installation together with the unique Ernitec software developed by Ernitec to back-up the complete machine including OS and VMS settings to internal hardware.
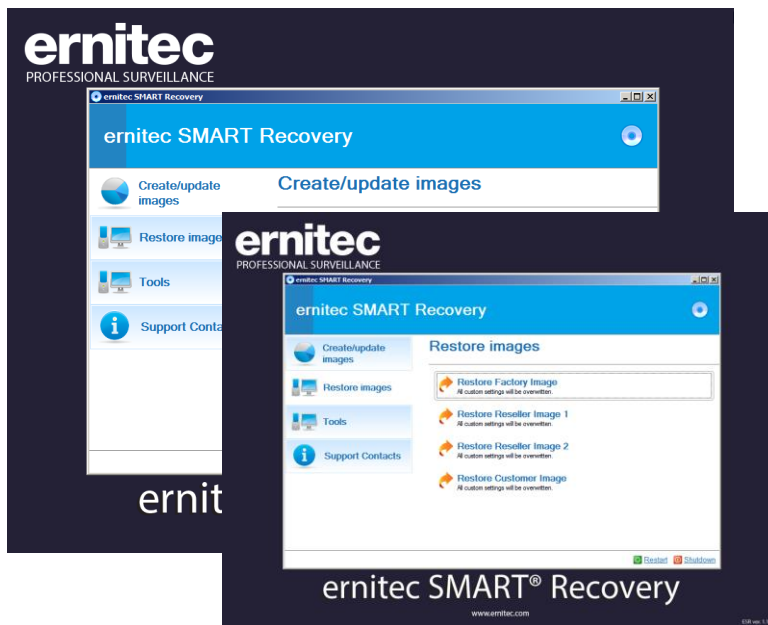
12Gbps Raid Controller

Integrated to the mother board is a new 12Gbps hardware raid controller, doubling the speed of our current 6Gbps raid card with secondary benefit of freeing up a PCI slot on the motherboard.

5 Series Numbering System

Part Number	Description
BUILD-ESR-5104	5 series 1UH, 4 Storage Bays
BUILD-ESR-5208	5 series 2UH, 8 Storage Bays
BUILD-ESR-5316	5 series 3UH, 16 Storage Bays
BUILD-ESR-5436	5 series 4UH, 36 Storage Bays

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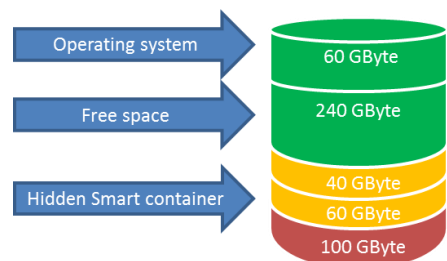Tempovej 41
2750 Ballerup
Denmark

Ernitec Smart Recovery software

- Ernitec Smart Recovery is the first and currently only recovery tool for surveillance servers that is designed especially for the surveillance market.

- ESR can save you a huge amount of time and money on trying to find an error – now fault finding software errors can be carried out on site with the use of this unique tool.

- Backup the complete machine including OS and VMS settings.

- With ESR you no longer have to think about having a backup of every system you use.

- The most reliable recovery solution for surveillance servers on the market.

- Choose between Factory, Reseller 1, Reseller 2 and Customer image that can boot your server, even after a severe crash.

- Recover the complete machine including OS and VMS settings.

- ESR works on Windows 7, 8, 2008 & 2012 operating system and its applications without re-installation.

- ESR is pre-installed on all Ernitec ESR servers

Operating system	60 GByte
Free space	240 GByte
Hidden Smart container	40 GByte
	60 GByte
	100 GByte

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The Pegasus 5 series range consists of 4 new chassis types along with a external JBOD storage solution.

BUILD-ESR-5104
The 4 Bay 1 UH chassis can be used as a small recording server, a high powered client with our monitor card options packs and as the brain for a large storage solution using our external JBOD storage rack solitons.

BUILD-ESR-5208
The 8 Bay 2 UH chassis can be used as a high powered recording server and high powered client with our monitor card options packs. Ideal for projects with large resolution and video analytics.

BUILD-ESR-5316
The 16 Bay 3 UH chassis can be used as a high powered recording server with large storage requirements. Ideal for projects with large resolution and video analytics.

BUILD-ESR-5436
The 36 Bay 4 UH chassis can be used as a high powered recording server with massive storage requirements. Ideal for projects with large resolution and lots of storage.

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External Storage

The Pegasus 5 Series is designed with large systems in mind requiring high CPU power and large video storage. At Ernitec we recognize that many end users are insisting on retaining their video storage for longer, sometimes up to a years recording is demanded. On top of this fact the image sizes and quality of video is increasing all the time and VMS vendors including Ernitec are allowing more licenses to be included in a server further increasing the need for more storage. With all these facts in mind we have selected a range for external options to meet this demand.

BUILD-E5212

The 12 Bay 2 UH JBOD External Storage chassis comes complete with HBA SAS/SATA Raid controller card fitted to server and cable for connection.

BUILD-E5424

The 24 Bay 4 UH JBOD External Storage chassis comes complete with HBA SAS/SATA Raid controller card fitted to server and cable for connection.

BUILD-E5212-EX

The 12 Bay 2 UH JBOD Additional External Storage expansion chassis comes complete cable for connection. Up to 6 units can be daisy chained.

BUILD-E5424-EX

The 24 Bay 4 UH JBOD Additional External Storage expansion chassis comes complete cable for connection. Up to 6 units can be daisy chained.

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Pegasus E5 Series Upgrade options

Customize options for the Pegasus 5 Series surveillance server range, enables you to design the server to the project requirments. All Motherboards in the range are capable of running two CPUs we have a selection of CPUs that not only offer massive power possibility's but are good value as well.

CPU Pass Mark Scores

	Intel Xeon E5-2630 v3 @ 2.40GHz	Intel Xeon E5-2650 v3 @ 2.30GHz	Intel Xeon E5-2680 v3 @ 2.50GHz
Socket Type	LGA2011-v3	LGA2011-v3	LGA2011-v3
CPU Class	Server	Server	Server
Clockspeed	2.4 GHz	2.3 GHz	2.5 GHz
Turbo Speed	Up to 3.2 GHz	Up to 3.0 GHz	Up to 3.3 GHz
# of Physical Cores	8 (2 logical cores per physical)	10 (2 logical cores per physical)	12 (2 logical cores per physical)
Max TDP	85W	105W	120W
# of Samples	82	28	29
Single Thread Rating	1761	1716	1877
CPU Mark	**12841**	**15239**	**18890**

E5-2630v4	BUILD-E5-CPU-E5-2650v4	BUILD-E5-CPU-E5-2680v4
The E5-2630v4 is our entry level which is fitted as standard in our 5 series range.	The E5-2650v4 option has 30% more power than the standard E5-2630v4 processor.	The E5-2680v4 option has 60% more power than the standard E5-2630v4 processor.
BUILD-E5-2X-CPU	BUILD-E5-2X-CPU-E5-2650v4	BUILD-E5-2X-CPU-E5-2680v4
We fit an extra E5-2630v4 to your Pegasus 5 series server.	We fit two E5-2650v4 to your Pegasus 5 series server.	We fit two E5-2680v4 to your Pegasus 5 series server.

RAM UPGRADE	
BUILD-E5-UPGRADE-RAM-32GB	RAM upgrade to 32BG, the 5 Series can take up to 2TB RAM if required
RAM UPGRADE	
BUILD-E5-UPGRADE-RAM-64GB	RAM upgrade to 64BG, the 5 Series can take up to 2TB RAM if required

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Upgrade options

Customize options for the Build-ERS surveillance server, enables you to design the server to the project requirements. All hard drives are Enterprise performance rated which are optimized for 24/7 surveillance use. The hardware 8ch RAID controller supports 1.5, 3.0 and 6.0 Gb/s SAS and SATA data transfer rates on all channels and the professional graphics card renders pristine image quality on up to four Display Port monitors at resolutions up to 2560 x 1600 per output .

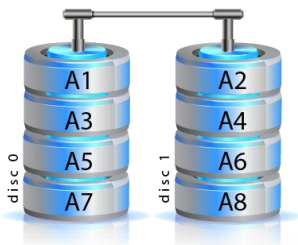| Drive Options	
SATA Drives	
Build-1TB-SATA-HDD-ESR	24/7 HDD SATA industrial 7200rpm
Build-2TB-SATA-HDD-ESR	24/7 HDD SATA industrial 7200rpm
Build-3TB-SATA-HDD-ESR	24/7 HDD SATA industrial 7200rpm
Build-4TB-SATA-HDD-ESR	24/7 HDD SATA industrial 7200rpm
Build-6TB-SATA-HDD-ESR	24/7 HDD SATA industrial 7200rpm
SAS Drives	
Build-1TB-SAS-HDD-ESR	24/7 HDD SAS, 7200rpm optimized for RAID controller
Build-2TB-SAS-HDD-ESR	24/7 HDD SAS, 7200rpm optimized for RAID controller
Build-3TB-SAS-HDD-ESR	24/7 HDD SAS, 7200rpm optimized for RAID controller
Build-4TB-SAS-HDD-ESR	24/7 HDD SAS, 7200rpm optimized for RAID controller
Build-6TB-SAS-HDD-ESR	24/7 HDD SAS, 7200rpm optimized for RAID controller
SSD Drives	
BUILD-512GB-SSD-HDD-ESR	24/7 HDD SSD for high speed live database requirements
BUILD-1TB-SSD-HDD-ESR	24/7 HDD SSD for high speed live database requirements

RAID options	
Build-RAID0-Setting	RAID config setting
Build-RAID1-Setting	RAID config setting
Build-RAID5-Setting	RAID config setting
Build-RAID10-Setting	RAID config setting
Build-RAID50-Setting	RAID config setting
Build-RAID6-Setting	RAID config setting
Build-RAIDJOBD-Setting	RAID config setting
Build-hotspare	RAID config setting

Graphic controller	
Build-ERC-4monitor	Graphic card for 4 monitors with 4 display port or 4 DVI output

Graphic controller	
Build-ERC-6monitor	Graphic card for 6 monitors with 4 display port or 4 DVI output

Graphic controller	
Build-ERC-8monitor	Graphic card for 8 monitors with 4 display port or 4 DVI output

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Upgrade Options

The Pegasus 5 Series server can be customized to your needs enabling you to design the server to the project requirements. This includes installation of the Ernitec EasyView VMS software, EasyView Video Analytics and Licence Plate Recognition software all pre loaded and tested in our factory.

Software Options

EasyView	Factory installation of EasyView VMS
EasyView License	Factory installation of Ernitec EasyView Enterprise Version, 1 channel IP NVR & DVR license, max 10 users, 5 servers, 128 cameras per server

Software Options

BUILD-VCA-1CH-A	Factory Installation of 1 Channel Video Analytics Advance Surveillance with people counting

Software Options

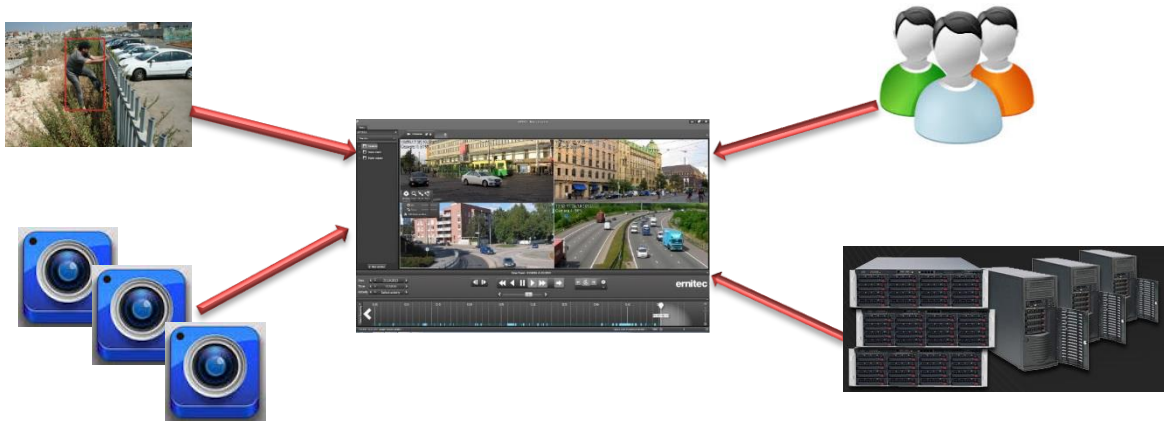|	
ANPR LICENCE	Factory Installation of Automatic Number Plate Recognition system

Reporting Tool

Factory installation of Software data mining tool for system administrators and retail users to analyse data from the CCTV server (XMC). The tool can be used to obtain information from VCA, people counting and ANPR systems within the server providing more detailed feed back to the system user.

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EasyView Professional VMS For Pegasus Servers

EasyView

When designing a CCTV system you try to cover all angles and offer the best solution to a customer, however more often than not when a customer sees the quality of the megapixel cameras that have been installed customers will come back and ask for more cameras. If you have purchased a Linux box NVR solution this means you have add a whole new unit just for maybe one of two more cameras. This is not the case with the EasyView Software, if you want to upgrade you simply add the extra licenses you want to increase the system size. We offer many upgrade options that can ultimately take your system an unlimited amount of cameras.

EasyView Part Numbers

EVR-PRO CHANNEL

EVR Pro single channel license
5 users, 1 Server. Expansion max 50 channels.
Partno: 0063-99997

PRO-ENTERPRISE UPGRADE

Software upgrade from Pro to Enterprise version for 1 channel. To run enteprise all Pro channels need to be upgraded.
Partno: 0063-99996

ENTERPRISE CHANNEL

EVR Enterprise single channel license 10 users, 5 Servers. Expansion max 256 channels.
Partno: 0063-99999

MASTER SERVER EXTENSION

Master server license for additional servers from 6 to 20 and 20 users for EVR Enterprise. Active directory integration.
Partno: 0063-99995

SERVER EXTENSION

Master Hydra extension license for additional 10 servers on top of 0063-99995 use this part number to increase in steps of 10 to 150
Part no: 0063-99994

USER EXTENSION

License for additional 10 users in VMS Pro and VMS Enterprise.
Partno: 0063-99993

VIDEO ANALYCTICS CHANNEL

VCA Surveillance License, enterprise license required to run Video Analytics.
Partno: 0063-99988

ANPR

4 Channel ANPR Base License Enterprise license required to run ANPR
Partno: 0063-99987

REPORTING TOOL

Data mining tool for system administrators Enterprise license required to run Reporting Tool
Partno: 0063-99990

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Technical Specification Ernitec Pegasus 5 Series BUILD-ESR-5104

Features	
Server Type	4 Bay Rack Server
System Hard drive with OS	1 SSD (Samsung 850 EVO 500GB 2,5")
System HDD Option	2 x Samsung 850 EVO 500GB 2,5" RAID-1
Optical drive	DVD-RW
Monitor output	1 x VGA
Ernitec ESR software	Yes
Ernitec ESR INFO	Yes
Auto-rebooting after power failure	Yes

Storage	
Storage interface	SATA / SAS with RAID controller option
Storage included	-
Storage bays	4 x 3,5" hot swap bays
RAID controller	16ch controller, 6 GB/s per port, 0,1,5,6,10,50,60 + hot spare
Storage hard drive options	see upgrade options for more info

OS support	
OS	Windows Embedded 8.1 Pro 64bit
Upgrade option; Win OS	Windows 2012R2 64bit

CPU / Memory	
CPU	INTEL Xeon E5-2630v4 2,20GHz
CPU Upgrade options	1 x Xeon E5-2650v4 2,30GHz 1 x Xeon E5-2680v3 2,50GHz 2 x Xeon E5-2630v4 2,20GHz 2 x Xeon E5-2650v4 2,30GHz 2 x Xeon E5-2680v3 2,50GHz
Memory	16GB 2133MHz DDR4 ECC

Cooling	
Fan type	5x 4cm Counter-rotating PWM fans
Hot swap Fan	5

On-Board Devices	
Motherboard	Dual socket R3 (LGA2001) supports Intel Xeon E5 V3/4 family processors
Keyboard / mouse	USB connector
Chipset	Intel® C612 Express PCH
USB ports	4x USB 3.0 (2 rear + 2 via headers) 3xUSB 2.0 (1 Type A + 2 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Realtek RTL8211E PHY & 2x Intel® i210AT)
Embedded RAID Controller	Embedded Onboard RAID for system hard drive
Integrated RAID Controller	LSI 3108 SAS3 (12Gbps)
Raid Backup	Battery back up for RAID Controller

Power	
Redundant PSU	1000W (1+1) high-efficiency (95%+) AC-DC Redundant power supplies with PMBus
Power requirements	100v -240V AC/50-60Hz/920W

Management	
Power Configurations	ACPI / ACPM Power Management, Main Switch Override Mechanism, Wake-On-LAN (WOL) header, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	IPMI 2.0, SPM, SUM, SuperDoctor® 5, Intel® Node Manager 3.0, Watch Dog

Dimensions / Weights	
Form Factor	1U 19" Rack Frame
Rack Rails	Yes
Dimensions (HxWxD mm)	178x437x699
Weight	36,3KG

General	
Languages	25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish
Operation conditions	Temperature range from +5°C to +35°C
Operating Relative Humidity Range	8% ~ 90% (non-condensing)
warranty	3 years
Included accessories	1x OPTICAL MOUSE BLACK/USB PS2, CAT6 2M GREY, CAT6 2M BLUE, Power Cord schuko 2M , Power 2M UK,
Part number	BUILD-ESR-5104

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Technical Specification Ernitec Pegasus 5 Series BUILD-ESR-5208

Features	
Server Type	8 Bay Rack Server
System Hard drive with OS	1 SSD (Samsung 850 EVO 500GB 2,5")
System HDD Option	2 x Samsung 850 EVO 500GB 2,5" RAID-1
Optical drive	DVD-RW
Monitor output	1 x VGA
Ernitec ESR software	Yes
Ernitec ESR INFO	Yes
Auto-rebooting after power failure	Yes

Storage	
Storage interface	SATA / SAS with RAID controller option
Storage included	-
Storage bays	8 x 3,5" hot swap bays
RAID controller	16ch controller, 6 GB/s per port, 0,1,5,6,10,50,60 + hot spare
Storage hard drive options	see upgrade options for more info

OS support	
OS	Windows 2012R2 64bit

CPU / Memory	
CPU	INTEL Xeon E5-2630v4 2,20GHz
CPU Upgrade options	1 x Xeon E5-2650v4 2,30GHz 1 x Xeon E5-2680v3 2,50GHz 2 x Xeon E5-2630v4 2,20GHz 2 x Xeon E5-2650v4 2,30GHz 2 x Xeon E5-2680v3 2,50GHz
Memory	16GB 2133MHz DDR4 ECC

Cooling	
Fan type	3 x 80mm middle cooling fans Redundant cooling
Hot swap Fan	3

On-Board Devices	
Motherboard	Dual socket R3 (LGA2001) supports Intel Xeon E5 V3/4 family processors
Keyboard / mouse	USB connector
Chipset	Intel® C612 Express PCH
USB ports	4x USB 3.0 (2 rear + 2 via headers) 3xUSB 2.0 (1 Type A + 2 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Realtek RTL8211E PHY & 2x Intel® i210AT)
Embedded RAID Controller	Embedded Onboard RAID for system hard drive
Integrated RAID Controller	LSI 3108 SAS3 (12Gbps)
Raid Backup	Battery back up for RAID Controller

Power	
Redundant PSU	740W (1+1) high-efficiency (95%+) AC-DC Redundant power supplies with PMBus
Power requirements	100v -240V AC/50-60Hz/920W

Management	
Power Configurations	ACPI / ACPM Power Management, Main Switch Override Mechanism, Wake-On-LAN (WOL) header, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	IPMI 2.0, SPM, SUM, SuperDoctor® 5, Intel® Node Manager 3.0, Watch Dog

Dimensions / Weights	
Form Factor	2U 19" Rack Frame
Rack Rails	Yes
Dimensions (HxWxD mm)	178x437x699
Weight	36,3KG

General	
Languages	25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish
Operation conditions	Temperature range from +5°C to +35°C
Operating Relative Humidity Range	8% ~ 90% (non-condensing)
warranty	3 years
Included accessories	1x OPTICAL MOUSE BLACK/USB PS2, CAT6 2M GREY, CAT6 2M BLUE, Power Cord schuko 2M , Power 2M UK,
Part number	BUILD-ESR-5208

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Technical Specification Ernitec Pegasus 5 Series BUILD-ESR-5316

Features	
Server Type	16 Bay Rack Server
System Hard drive with OS	1 SSD (Samsung 850 EVO 500GB 2,5")
System HDD Option	2 x Samsung 850 EVO 500GB 2,5" RAID-1
Optical drive	DVD-RW
Monitor output	1 x VGA
Ernitec ESR software	Yes
Ernitec ESR INFO	Yes
Auto-rebooting after power failure	Yes

Storage	
Storage interface	SATA / SAS with RAID controller option
Storage included	-
Storage bays	16 x 3,5" hot swap bays
RAID controller	16ch controller, 6 GB/s per port, 0,1,5,6,10,50,60 + hot spare
Storage hard drive options	see upgrade options for more info

OS support	
OS	Windows 2012R2 64bit

CPU / Memory	
CPU	INTEL Xeon E5-2630v4 2,20GHz
CPU Upgrade options	1 x Xeon E5-2650v4 2,30GHz 1 x Xeon E5-2680v3 2,50GHz 2 x Xeon E5-2630v4 2,20GHz 2 x Xeon E5-2650v4 2,30GHz 2 x Xeon E5-2680v3 2,50GHz
Memory	16GB 2133MHz DDR4 ECC

Cooling	
Fan type	5x 80mm middle cooling fans Redundant cooling
Hot swap Fan	5

On-Board Devices	
Motherboard	Dual socket R3 (LGA2001) supports Intel Xeon E5 V3/4 family processors
Keyboard / mouse	USB connector
Chipset	Intel® C612 Express PCH
USB ports	4x USB 3.0 (2 rear + 2 via headers) 3xUSB 2.0 (1 Type A + 2 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Realtek RTL8211E PHY & 2x Intel® i210AT)
Embedded RAID Controller	Embedded Onboard RAID for system hard drive
Integrated RAID Controller	LSI 3108 SAS3 (12Gbps)
Raid Backup	Battery back up for RAID Controller

Power	
Redundant PSU	1000W (1+1) high-efficiency (95%+) AC-DC Redundant power supplies with PMBus
Power requirements	100v -240V AC/50-60Hz/920W

Management	
Power Configurations	ACPI / ACPM Power Management, Main Switch Override Mechanism, Wake-On-LAN (WOL) header, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	IPMI 2.0, SPM, SUM, SuperDoctor® 5, Intel® Node Manager 3.0, Watch Dog

Dimensions / Weights	
Form Factor	3U 19" Rack Frame
Rack Rails	Yes
Dimensions (HxWxD mm)	178x437x699
Weight	36,3KG

General	
Languages	25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish
Operation conditions	Temperature range from +5°C to +35°C
Operating Relative Humidity Range	8% ~ 90% (non-condensing)
warranty	3 years
Included accessories	1x OPTICAL MOUSE BLACK/USB PS2, CAT6 2M GREY, CAT6 2M BLUE, Power Cord schuko 2M , Power 2M UK,
Part number	BUILD-ESR-5316

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Technical Specification Ernitec Pegasus 5 Series BUILD-ESR-5436

Features

Server Type	36 Bay Rack Server
System Hard drive with OS	1 SSD (Samsung 850 EVO 500GB 2,5")
System HDD Option	2 x Samsung 850 EVO 500GB 2,5" RAID-1
Optical drive	DVD-RW
Monitor output	1 x VGA
Ernitec ESR software	Yes
Ernitec ESR INFO	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	SATA / SAS with RAID controller option
Storage included	-
Storage bays	36 x 3,5" hot swap bays
RAID controller	16ch controller, 6 GB/s per port, 0,1,5,6,10,50,60 + hot spare
Storage hard drive options	see upgrade options for more info

OS support

OS	Windows 2012R2 64bit

CPU / Memory

CPU	INTEL Xeon E5-2630v4 2,20GHz
CPU Upgrade options	1 x Xeon E5-2650v4 2,30GHz 1 x Xeon E5-2680v3 2,50GHz 2 x Xeon E5-2630v4 2,20GHz 2 x Xeon E5-2650v4 2,30GHz 2 x Xeon E5-2680v3 2,50GHz
Memory	16GB 2133MHz DDR4 ECC

Cooling

Fan type	7x 80mm middle cooling fans Redundant cooling
Hot swap Fan	7

On-Board Devices

Motherboard	Dual socket R3 (LGA2001) supports Intel Xeon E5 V3/4 family processors
Keyboard / mouse	USB connector
Chipset	Intel® C612 Express PCH
USB ports	4x USB 3.0 (2 rear + 2 via headers) 3xUSB 2.0 (1 Type A + 2 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Realtek RTL8211E PHY & 2x Intel® i210AT)
Embedded RAID Controller	Embedded Onboard RAID for system drive
Integrated RAID Controller	LSI 3108 SAS3 (12Gbps)
Raid Backup	Battery back up for RAID Controller

Power

Redundant PSU	1280W (1+1) high-efficiency (95%+) AC-DC Redundant power supplies with PMBus
Power requirements	100v -240V AC/50-60Hz/920W

Management

Power Configurations	ACPI / ACPM Power Management, Main Switch Override Mechanism, Wake-On-LAN (WOL) header, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	IPMI 2.0, SPM, SUM, SuperDoctor® 5, Intel® Node Manager 3.0, Watch Dog

Dimensions / Weights

Form Factor	4U 19" Rack Frame
Rack Rails	Yes
Dimensions (HxWxD mm)	178x437x699
Weight	36,3KG

General

Languages	25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish
Operation conditions	Temperature range from +5°C to +35°C
Operating Relative Humidity Range	8% ~ 90% (non-condensing)
warranty	3 years
Included accessories	1x OPTICAL MOUSE BLACK/USB PS2, CAT6 2M GREY, CAT6 2M BLUE, Power Cord schuko 2M , Power 2M UK,
Part number	BUILD-ESR-5436

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