Pegasus Server V3 Series

Stock Series Just Add Drives

- 1000 & 2800 Megapixel FPS recording
- Dual Gigabit Network Card
- 4, 8,12 or 16 Hot Swappable HDD bays
- Intel i5, I7 or E3 Xeon Kaby Lake CPUs
- IPMI Remote Access
- Rack Versions inc 12Gbps RAID Card
- ESR V3 – USB Ernitec Smart Recovery®
- Windows® 10 IoT Pro OS installed
- 240 or 500Gb SSD System Drive
- 3 year Warranty

Pegasus Series

The Pegasus v3 Series is a range of servers you can purchase off the shelf. The concept is designed to offer fast deployment of professional servers to the security industry. Rack versions come with RAID controller pre-installed. All you need to do is add hard drives.

Optimized For Surveillance

The Pegasus range 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 87 unique systems settings before leaving the assembling line to make sure that the server will run 24 hours per day, year after year.

Ernitec Advance Replacement HDDs

When you order Ernitec Pegasus hard drives with your Pegasus Server you have the added benefit of a 3 year advance replacement service on the drives.

Ernitec Smart Recovery Version Two

The new Version of ESR can now be accessed from the desktop, with this unique software developed by Ernitec you can back-up the complete machine including OS and VMS settings. We are also bringing new standards to the server market with a specially developed configuration GUI for language selection and network settings that simplifies the installation.

Hardware Remote Access

Special hardware IPMI management and notify-cation server give you early warnings if a problem is detected so you can keep your server healthy.

Pegasus Configuration Table

Part Number	Description	Raid Card
PEGASUS-ERC-CLIENT	1000MP VIEWING TOWER	N/A
PEGASUS-ESR2800-4C	4 BAY 2800 Meg CUBE	Option
PEGASUS-ESR1000-4T	4 BAY 1000 Meg TOWER	Option
PEGASUS-ESR2800-4T	4 BAY 2800 Meg TOWER	Option
PEGASUS-ESR2800-8T	8 BAY 2800 Meg TOWER	Option
PEGASUS-ESR2800R-4R	4 BAY 2800 Meg 1U RACK	Included
PEGASUS-ESR2800R-8R	8 BAY 2800 Meg 2U RACK	Included
PEGASUS-ESR2800R-12R	12 BAY 2800 Meg 2U RACK	Included
PEGASUS-ESR2800R-16R	16 BAY 2800 Meg 3U RACK	Included

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Ernitec Smart Recovery V3 Software USB version

- Ernitec Smart Recovery – Designed for surveillance servers
- Automated backup of c: drive every day/week/month
- Only 15 minutes to restore the entire system
- V3 now supports back up to USB on motherboard

- Backup the complete machine including OS and VMS settings.

- New Windows Desk Top user interface a backup server while its running.

- User defined scheduled backup.

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

- Choose between four backup images

- **New desk top Icon for ESR**

- Recover the complete machine including OS and VMS settings.

- ESR works on Windows 7, 8, 10 and server 2012 operating systems.

- ESR is pre-installed on all Ernitec ESR servers

- Internal USB fitted to all compatible servers for auto back up of your image, if your system disc fails just fit a new one and build your working image from the internal USB in minuets reducing down time and days or windows rebuilding.

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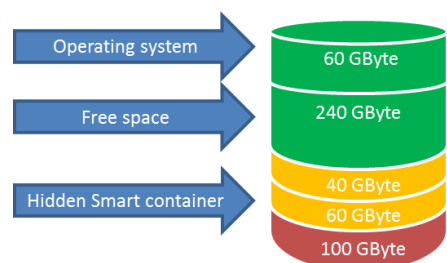
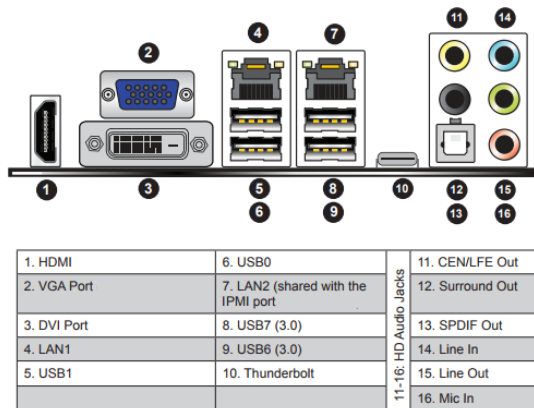## Intelligent Platform Management Interface (IPMI)

IPMI is an invaluable tool for any administrator, it enables them to monitor systems on a hardware level and perform essential maintenance remotely.

Without it system installation, trouble shooting and monitoring can be a costly time consuming experience. With collocated systems, a system crash/hang that requires a system reboot can in some situations require a trip to a data centre in another city. Simply probing the KVM to determine the fault and if necessary power cycling the node can be done in seconds resulting in much faster response times and ensure longer uptime of essential services.

Even disregarding system failures, IPMI is a powerful tool for monitoring overall system health, applying firmware, BIOS and OS updates remotely, configuring new systems and using KVM to fully control the pre-OS and OS remotely.

All of these factors make IPMI an excellent tool for reducing your TCO and improving your productivity as an administrator and your company's services as a whole.

IPMI CONNECTIVITY

All these features are delivered remotely over a standard IP network port on the managed system. Build Servers send IPMI traffic over the 2nd LAN port on the motherboard (eth2) alongside the systems standard IP traffic shown in item 7 below.

1. HDMI	6. USB0		11. CEN/LFE Out
2. VGA Port	7. LAN2 (shared with the IPMI port		12. Surround Out
3. DVI Port	8. USB7 (3.0)		13. SPDIF Out
4. LAN1	9. USB6 (3.0)	11-16: HD Audio Jacks	14. Line In
5. USB1	10. Thunderbolt		15. Line Out
			16. Mic In

KVM Over IP Support

Using a Java based console it's possible to gain full graphical KVM access to a system over an IP network. This allows access at all times, even before an O/S has booted, giving access to the BIOS or DOS applications. It's even possible to perform installations of Linux and Windows remotely from this console.
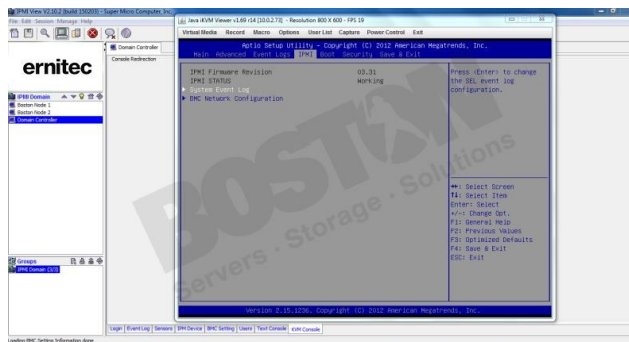
* Note the PEGASUS-ESR2800-4C and PEGASUS-ESR2800R-4R have no IPMI support.

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Pegasus Configuration Guide

At Ernitec we aim to make server configuration easy and transparent for our customers. That's why just looking at our stock number you can see the exact configuration and performance of the server. Just choose a model and add hard drives

All servers have a performance number 1000 or 2800. This refers to the total megapixel the server can handle for recording.

To find the server you need to multiply three numbers: resolution of camera X frames per second X number of cameras.

Example: 20 cameras in Full HD (2 megapixel) recording 25 frames per second. Equals 20 X 2 X 25 = 1000 megapixel.

Tower models

Part Number	Description	Raid Card
BUILD-ESR1000-4T	4 BAY 1000 Meg TOWER	Option
BUILD-ESR2800-8T	8 BAY 2800 Meg TOWER	Option

Rack models

Part Number	Description	Raid Card
BUILD-ESR1000-4R	4 BAY 1000 Meg RACK	Included
BUILD-ESR1000-8R	8 BAY 1000 Meg RACK	Included
BUILD-ESR2800R-12R	12 BAY 2800 Meg RACK	Included
BUILD-ESR2800R-16R	16 BAY 2800 Meg RACK	Included

Clients

Part Number	Description	Raid Card
PEGASUS-ERC-CLIENT	1000 MP Viewing TOWER	N/A

Part Number Guide

Options	Part Number	Description
Name	PEGASUS	Off the shelf concept
Software	ESR	Ernitec Smart Recovery Installed
Performance	1000 or 2800	Total megapixel server rating
Raid Card Option	R	RAID controller included
HDD Capacity	4/8/12/16	Removable Hard Disk Capacity
Chassis Type	C/T/R	Cube, Tower or Rack Cabinet

8 BAY RACK

4 BAY CUBE

8 BAY TOWER

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Additional Parts For Pegasus Stock Series

Hard Drive Selection

We have a wide range of hard drives to go with your Pegasus Server. This 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. Our hardware RAID controllers support 1.5, 3.0 and 6.0 Gb/s SAS and SATA data transfer rates on all channels.

Advance Replacement Drives

When you purchase hard drives from Ernitec we offer you a next day advance replacement hard drive service, just contact the RMA return department and give them the serial number or invoice number and we will ship you a new hard drive in advance of the returned faulty unit.

Drive Options	
SATA Drives	
HDD-1000GB	1 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
HDD-2000GB	2 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
HDD-3000GB	3 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
HDD-4000GB	4 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
HDD-6000GB	6 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
HDD-8000GB	8 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
HDD-10000GB	10 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
SAS Drives	
HDD-1000GB-SAS	1 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
HDD-2000GB-SAS	2 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
HDD-3000GB-SAS	3 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
HDD-4000GB-SAS	4 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
HDD-6000GB-SAS	6 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
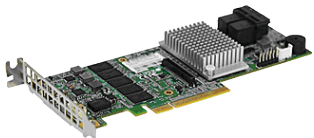
RAID *	
PEGASUS-8CH-RAID-CARD	8 channel HIGH performance RAID controller, 12 GB/s per port, 0,1,5,6,10,50,60 + hot spare. 512 MB on-card cache

* Note Raid controller works with both 4, 8, 12 bay and 16 bay racks with active backplane.

Graphic Controller * **	
PEGASUS-ERC-2MONITOR	Graphics card for 2 monitors with 1 HDMI port and 1 DVI output
PEGASUS-ERC-4MONITOR	Graphics card for 4 monitors with 4 display ports or 4 DVI outputs
PEGASUS-ERC-6MONITOR	Graphics card for 6 monitors with 6 display ports or 6 DVI outputs
PEGASUS-ERC-8MONITOR	Graphics card for 8 monitors with 8 display ports or 8 DVI outputs

* All Monitor cards can fit into the BUILD-ESR1000-4R using a riser card.

** Only the 2 and 4 way monitor cards fit into the, 8 and 12 Bay 2 U RACK

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EasyView Professional VMS For Pegasus Servers

EasyView Video Management System When designing a CCTV system you try to cover all angles and offer the best solution to the customer. However, more often than not when a customer sees the quality of the megapixel cameras that have been installed they will come back and ask for more cameras. If you have purchased a Linux box NVR solution this means you have to 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 to an unlimited amount of cameras, users and servers, with several options for video analytic software and integration to 3rd party software.
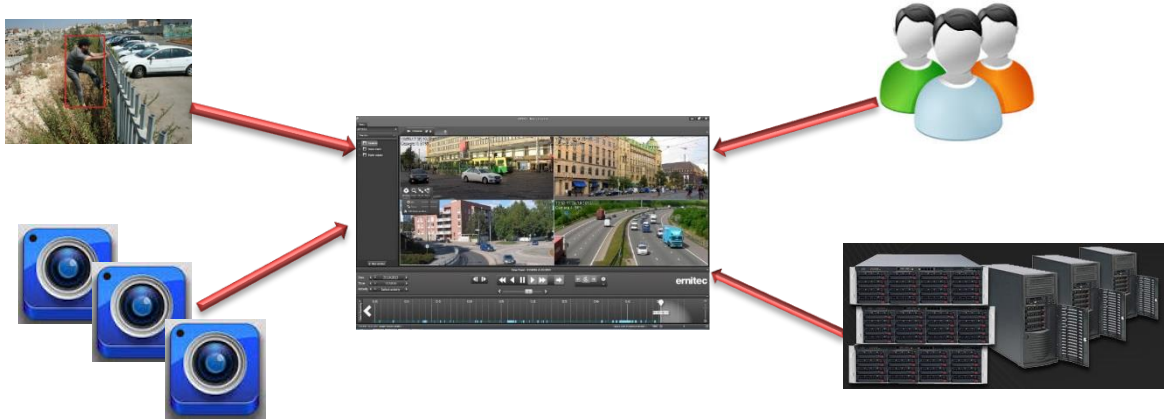
EasyView Part Numbers

PRO v7 CHANNEL

EasyView 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 v7 CHANNEL

EasyView Enterprise single channel license. Max expansion; 128 channels, 10 users, 5 Servers.
Inc 1 year warranty SMA
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 server extension license for additional 10 servers on top of 0063-99995 use this part number to increase in steps of 10 to 150/ unlimited for special projects
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
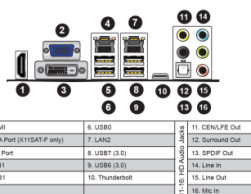Partno: 0063-99990

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Technical Specification PEGASUS-ESR1000-4T

Features

Recording frame rate at resolution 1280 x 720	*Up to 1000 fps/sec in H.264
System Hard drive with OS	1x500 GB SSD
Graphic controller for 3 monitor output	** 1xVGA, 1xDVI-D, 1xHDMI, 1xThunderbolt, up to 4096 x 2304
Ernitec ESR software	Yes
Ernitec Pre Server Configurator	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	M.2/SATA/SAS. RAID controller option
Storage included	-
Storage bays	4x 3,5" hot swap bays
RAID controller	Order Separately
Storage hard drive options	See upgrade options for more info

OS support

OS	Windows 10 IoT Enterprise 64bit
Upgrade option; Win OS	No

CPU / Memory

CPU Skylake	Intel Core I5-6400 2,7GHz LGA1151 6MB cache
Memory	4x 2GB DDR4 2133MHz (8GB)

Cooling

Fan type	1x 92mm Front Thermal Fan

On-Board Devices

Keyboard / mouse	USB connector
Chipset	Intel® C236 Express PCH
Audio	HD Audio 7.1 channel connector by Realtek ALC1150
USB ports	8x USB 3.0 (4 rear + 4 via headers) 6xUSB 2.0 (2 rear + 4 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Intel® i217LM & 1x Intel® i210AT)
Embedded RAID Controller	***

Power

Fixed PSU	500W high-efficiency power supplies
Power requirements	100V -240V AC/50-60Hz/500W

Management

Power Configurations	IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	Ernitec Pre Server Configurator, Ernitec ESR, SuperDoctor III, IPMI View

Dimensions / Weights

Form Factor	Tower
Dimensions (HxWxD mm)	426x178x531
Weight net.	Up to 22.7KG (Cabinet 16.7KG)

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	PEGASUS-ESR1000-4T

Upgrade Options

RAID Card (8/16) with BP	PEGASUS-8CH-RAID-CARD
Monitor Card 2 outputs	PEGASUS-ERC-2MONITOR
Monitor Card 4 outputs	PEGASUS-ERC-4MONITOR
Monitor Card 6 outputs	PEGASUS-ERC-6MONITOR
Monitor Card 8 outputs	PEGASUS-ERC-8MONITOR

1. HDMI	6. USB0	11. CEN/LFE Out
2. VGA Port (X11SAT-F only)	7. LAN2	12. Surround Out
3. DVI Port	8. USB7 (3.0)	13. SPDIF Out
4. LAN1	9. USB6 (3.0)	14. Line In
5. USB1	10. Thunderbolt	15. Line Out
		16. Mic In

* Tested with Ernitec Easyview 7.5.10
** Using different cables with the on board graphic card can cause small differences to the images on the monitors connected
*** Tested and not recommended for any Video Surveillance usage

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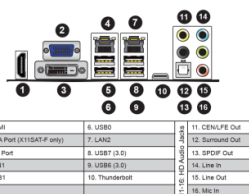We reserve the right to introduct product modifications without notice

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Technical Specification PEGASUS-ESR2800-4T

Features

Recording frame rate at resolution 1280 x 720	*Up to 2800 fps/sec in H.264
System Hard drive with OS	1x500 GB SSD
Graphic controller for 3 monitor output	** 1xVGA, 1xDVI-D, 1xHDMI, 1xThunderbolt, up to 4096 x 2304
Ernitec ESR software	Yes
Ernitec Pre Server Configurator	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	M.2/SATA/SAS. RAID controller option
Storage included	-
Storage bays	4x 3,5" hot swap bays
RAID controller	Order Separately
Storage hard drive options	See upgrade options for more info

OS support

OS	Windows 10 IoT Enterprise 64bit
Upgrade option; Win OS	No

CPU / Memory

CPU Kaby Lake	INTEL Xeon E3-1245v6 3,70GHz LGA1151
Memory	2x 8GB 2133MHz DDR4 (16GB)

Cooling

Fan type	1x 92mm Front Thermal Fan

On-Board Devices

Keyboard / mouse	USB connector
Chipset	Intel® C236 Express PCH
Audio	HD Audio 7.1 channel connector by Realtek ALC1150
USB ports	8x USB 3.0 (4 rear + 4 via headers) 6xUSB 2.0 (2 rear + 4 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Intel® i217LM & 1x Intel® i210AT)
Embedded RAID Controller	***

Power

Fixed PSU	500W high-efficiency power supplies
Power requirements	100V -240V AC/50-60Hz/500W

Management

Power Configurations	IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	Ernitec Pre Server Configurator, Ernitec ESR, SuperDoctor III, IPMI View

Dimensions / Weights

Form Factor	Tower
Dimensions (HxWxD mm)	426x178x531
Weight net.	Up to 22.7KG (Cabinet 16.7KG)

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	PEGASUS-ESR2800-4T

Upgrade Options

RAID Card (8/16) with BP	PEGASUS-8CH-RAID-CARD
RAID Battery backup unit	PEGASUS-RAID-BBU
Monitor Card 2 outputs	PEGASUS-ERC-2MONITOR
Monitor Card 4 outputs	PEGASUS-ERC-4MONITOR
Monitor Card 6 outputs	PEGASUS-ERC-6MONITOR
	PEGASUS-ERC-8MONITOR

1. HDMI	6. USB0	11. CEN/LFE Out
2. VGA Port (X11SAT-F only)	7. LAN2	12. Surround Out
3. DVI Port	8. USB7 (3.0)	13. SPDIF Out
4. LAN1	9. USB6 (3.0)	14. Line In
5. USB1	10. Thunderbolt	15. Line Out
		16. Mic In

* Tested with Ernitec Easyview 7.5.10
** Using different cables with the on board graphic card can cause small differences to the images on the monitors connected
*** Tested and not recommended for any Video Surveillance usage

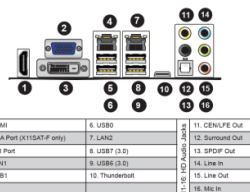We reserve the right to introduct product modifications without notice

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Technical Specification PEGASUS-ESR2800-8T

Features

Recording frame rate at resolution 1280 x 720	*Up to 2800 fps/sec in H.264
System Hard drive with OS	1x500 GB SSD
Graphic controller for 3 monitor output	** 1xVGA, 1xDVI-D, 1xHDMI , 1xThunderbolt, up to 4096 x 2304
Ernitec ESR software	Yes
Ernitec Pre Server Configurator	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	M.2/SATA/SAS. RAID controller option
Storage included	-
Storage bays	8 x 3,5" hot swap bays
RAID controller	Order Separately
Storage hard drive options	See upgrade options for more info

OS support

OS	Windows 10 IoT Enterprise 64bit
Upgrade option; Win OS	No

CPU / Memory

CPU Kaby Lake	INTEL Xeon E3-1245v6 3,70GHz LGA1151
Memory	2x 8GB 2133MHz DDR4 (16GB)

Cooling

Fan type	4x 80mm Hot-swap 4-pin PWM Fans
Hot swap Fan	4

On-Board Devices

Keyboard / mouse	USB connector
Chipset	Intel® C236
Audio	HD Audio 7.1 channel connector by Realtek ALC1150
USB ports	8x USB 3.0 (4 rear + 4 via headers) 6xUSB 2.0 (2 rear + 4 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Intel® i217LM & 1x Intel® i210AT)
Onboard RAID Controller	***

Power

Fixed PSU	665W Super Quiet (25dB) (Bronze Level) High-efficiency PS
Power requirements	100v -240V AC/50-60Hz/500W

Management

Power Configurations	IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	Ernitec Pre Server Configurator, Ernitec ESR, SuperDoctor III, IPMI View

Dimensions / Weights

Form Factor	Tower/Rack
Dimensions (HxWxD mm)	452x178x647
Rack Kit	Option Part No: RACKKIT
Weight net	Up to 29.6KG (Cabinet 23.6KG)

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	PEGASUS-ESR2800-8T

Options

RAID Card (8/16) with BP	**** PEGASUS-8CH-RAID-CARD
RAID Battery backup unit	PEGASUS-RAID-BBU
Monitor Card 2 outputs	PEGASUS-ERC-2MONITOR
Monitor Card 4 outputs	PEGASUS-ERC-4MONITOR
Monitor Card 6 outputs	PEGASUS-ERC-6MONITOR
Monitor Card 8 outputs	PEGASUS-ERC-8MONITOR
Rack kit optional	RACKKIT

1. HDMI	6. USB0
2. VGA Port (X11SAT-F only)	7. LAN2
3. DVI Port	8. USB7 (3.0)
4. LAN1	9. USB6 (3.0)
5. USB1	10. Thunderbolt
11. CEN/LFE Out	
12. Surround Out	
13. SPDIF Out	
14. Line In	
15. Line Out	
16. Mic In	

*   Tested with Ernitec Easyview 7.5.10
**   Using different cables with the on board graphic card can cause small differences to the images on the monitors connected
***   Tested and not recommended for any Video Surveillance usage
**** Included in configuration

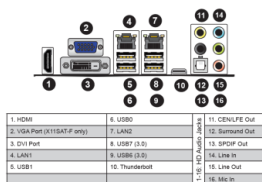We reserve the right to introduct product modifications without notice

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Technical Specification PEGASUS-ESR2800R-4R

Features

Framerate resolution at 1280 x 720	Viewing up to 1000 fps/sec in H.264 or Recording up to 2800 fps/sec in H.264
System Hard drive with OS	1x500 GB SSD
Graphic controller for 3 monitor output	** 1xVGA, 1xDVI-D, 1xHDMI , 1xThunderbolt, up to 4096 x 2304
Ernitec ESR software	Yes
Ernitec ESR INFO	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	SATA/SAS with RAID controller
Storage included	-
Storage bays	3 usable 3,5" hot swap bays
RAID controller Included	High Performance Raid controller, 12 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 10 IoT Enterprise 64bit
Upgrade option; Win OS	-

CPU / Memory

CPU SkyLake	INTEL Core I7-7700 3,6GHz LGA1151 8M
Memory	2x 8GB 2133MHz DDR4 (16GB)

Cooling

Fan type	80x38mm 4-pin PWM Fans
Hot swap Fan	3

On-Board Devices

Keyboard / mouse	USB connector
Chipset	Intel® C236
Audio	HD Audio 7.1 channel connector by Realtek ALC1150
USB ports	8x USB 3.0 (4 rear + 4 via headers) 6xUSB 2.0 (2 rear + 4 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Intel® i217LM & 1x Intel® i210AT)
Onboard RAID Controller	***

Power

Redundant PSU	400W (1+1) high-efficiency (94%+) AC-DC Redundant power supplies with PM Bus and I2C
Power requirements	100v -240V AC/50-60Hz/400W

Management

Power Configurations	IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	Ernitec Pre Server Configurator, Ernitec ESR, SuperDoctor III, IPMI View

Dimensions / Weights

Form Factor	1U 19" Rack Frame
Rack Rails	Yes
Dimensions (HxWxD mm)	43x437x503
Weight	Up to 21.2KG (Cabinet 15.2KG)

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, rack kit
Part number	PEGASUS-ESR2800R-4R

Options

RAID Battery backup unit	***** PEGASUS-RAID-BBU
Monitor Card 2 outputs	***** PEGASUS-ERC-2MONITOR
Monitor Card 4 outputs	***** PEGASUS-ERC-4MONITOR
Monitor Card 6 outputs	***** PEGASUS-ERC-6MONITOR
Monitor Card 8 outputs	***** PEGASUS-ERC-8MONITOR

* Tested with Ernitec Easyview 7.5.10
** Using different cables with the on board graphic card can cause small differences to the images on the monitors connected
*** Tested and not recommended for any Video Surveillance usage
**** Included in configuration
***** If installed – the PEGASUS-8CH-RAID-CARD has to be removed.

1. HDMI	6. USB0	11. CEN/LFE Out
2. VGA Port (X11SAT-F only)	7. LAN2	12. Surround Out
3. DVI Port	8. USB7 (3.0)	13. SPDIF Out
4. LAN1	9. USB6 (3.0)	14. Line In
5. USB1	10. Thunderbolt	15. Line Out
		16. Mic In

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Ernitec
Tempovej 41
2750 Ballerup
Denmark

Technical Specification PEGASUS-ESR2800R-8R

Features

Recording frame rate at resolution 1280 x 720	*Up to 2800 fps/sec in H.264
System Hard drive with OS	1x500 GB SSD
Graphic controller for 3 monitor output	** 1xVGA, 1xDVI-D, 1xHDMI, 1xThunderbolt, up to 4096 x 2304
Ernitec ESR software	Yes
Ernitec ESR INFO	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	SATA/SAS with RAID controller
Storage included	-
Storage bays	8 x 3,5" hot swap bays
RAID controller Included	High Performance 8ch controller, 12 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 10 IoT Enterprise 64bit
Upgrade option; Win OS	-

CPU / Memory

CPU Kaby Lake	INTEL Xeon E3-1245v6 3,70GHz LGA1151
Memory	2x 8GB 2133MHz DDR4 (16GB)

Cooling

Fan type	80x38mm 4-pin PWM Fans
Hot swap Fan	3

On-Board Devices

Keyboard / mouse	USB connector
Chipset	Intel® C236
Audio	HD Audio 7.1 channel connector by Realtek ALC1150
USB ports	8x USB 3.0 (4 rear + 4 via headers) 6xUSB 2.0 (2 rear + 4 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Intel® i217LM & 1x Intel® i210AT)
Embedded RAID Controller	***

Power

Redundant PSU	720W (1+1) high-efficiency (94%+) AC-DC Redundant power supplies with PM Bus and I2C
Power requirements	100v -240V AC/50-60Hz/720W

Management

Power Configurations	IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	Ernitec Pre Server Configurator, Ernitec ESR, SuperDoctor III, IPMI View

Dimensions / Weights

Form Factor	2U 19" Rack Frame
Rack Rails	Yes
Dimensions (HxWxD mm)	89x437x647
Weight	Up to 29.9KG (Cabinet 23.9KG)

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, rack kit
Part number	PEGASUS-ESR2800R-8R

Options

RAID Battery backup unit	PEGASUS-RAID-BBU
Monitor Card 2 outputs	PEGASUS-ERC-2MONITOR
Monitor Card 4 outputs	PEGASUS-ERC-4MONITOR
Monitor Card 6 outputs	PEGASUS-ERC-6MONITOR
Monitor Card 8 outputs	PEGASUS-ERC-8MONITOR

1. HDMI	6. USB0	11. CEN/LFE Out
2. VGA Port (X11SAT-F only)	7. LAN2	12. Surround Out
3. DVI Port	8. USB7 (3.0)	13. SPDIF Out
4. LAN1	9. USB6 (3.0)	14. Line In
5. USB1	10. Thunderbolt	15. Line Out
		11-16 HD Audio Jacks
		16. Mic In

*   Tested with Ernitec Easyview 7.5.10
**   Using different cables with the on board graphic card can cause small differences to the images on the monitors connected
***   Tested and not recommended for any Video Surveillance usage
**** Included in configuration

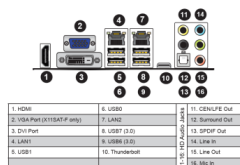We reserve the right to introduct product modifications without notice

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Denmark

Technical Specification PEGASUS-ESR2800R-12R

Features

Recording frame rate at resolution 1280 x 720	*Up to 2800 fps/sec in H.264
System Hard drive with OS	1x500 GB SSD
Graphic controller for 3 monitor output	** 1xVGA, 1xDVI-D, 1xHDMI , 1xThunderbolt, up to 4096 x 2304
Ernitec ESR software	Yes
Ernitec ESR INFO	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	SATA/SAS with RAID controller
Storage included	-
Storage bays	12 x 3,5" hot swap bays
RAID controller Included	High Performance 16ch controller, 12Gbps RAID; 0,1,5,6,10,50,60 + hot spare
Storage hard drive options	see upgrade options for more info

OS support

OS	Windows 10 IoT Enterprise 64bit
Upgrade option; Win OS	-

CPU / Memory

CPU Kaby Lake	INTEL Xeon E3-1245v6 3,70GHz LGA1151
Memory	2x 8GB 2133MHz DDR4 (16GB)

Cooling

Fan type	3x 80mm Hot-swap 4-pin PWM Fans 2x 80mm Rear-exhaust 4-pin PWM Fans
Hot swap Fan	5

On-Board Devices

Keyboard / mouse	USB connector
Chipset	Intel® C226 Express PCH
Audio	HD Audio 7.1 channel connector by Realtek ALC1150
USB ports	8x USB 3.0 (4 rear + 4 via headers) 6xUSB 2.0 (2 rear + 4 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Intel® i217LM & 1x Intel® i210AT)
Embedded RAID Controller	***

Power

Redundant PSU	1200W (1+1) high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C
Power requirements	100v -240V AC/50-60Hz/920W

Management

Power Configurations	IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	Ernitec ESR & SuperDoctor III

Dimensions / Weights

Form Factor	2U 19" Rack Frame
Rack Rails	Yes
Dimensions (HxWxD mm)	89x437x647
Weight	Up to 32KG (Cabinet 24.95KG)

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, Rack Kit
Part number	PEGASUS-ESR2800R-12R

Options

RAID Battery backup unit	PEGASUS-RAID-BBU
Monitor Card 2 outputs	PEGASUS-ERC-2MONITOR
Monitor Card 4 outputs	PEGASUS-ERC-4MONITOR

1. HDMI	6. USB0	11. CEN/LFE Out	
2. VGA Port (X11SAT-F only)	7. LAN2	12. Surround Out	
3. DVI Port	8. USB7 (3.0)	13. SPDIF Out	
4. LAN1	9. USB6 (3.0)	14. Line In	
5. USB1	10. Thunderbolt	15. Line Out	
		16. Mic In	

*   Tested with Ernitec Easyview 7.5.10
**   Using different cables with the on board graphic card can cause small differences to the images on the monitors connected
***   Tested and not recommended for any Video Surveillance usage
**** Included in configuration

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Technical Specification PEGASUS-ESR2800R-16R

Features

Recording frame rate at resolution 1280 x 720	*Up to 2800 fps/sec in H.264
System Hard drive with OS	1x500 GB SSD
Graphic controller for 3 monitor output	** 1xVGA, 1xDVI-D, 1xHDMI , 1xThunderbolt, up to 4096 x 2304
Ernitec ESR software	Yes
Ernitec ESR INFO	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	SATA/SAS with RAID controller
Storage included	-
Storage bays	16 x 3,5" hot swap bays
RAID controller Included	High Performance 16ch controller, 12Gbps RAID; 0,1,5,6,10,50,60 + hot spare
Storage hard drive options	see upgrade options for more info

OS support

OS	Windows 10 IoT Enterprise 64bit
Upgrade option; Win OS	-

CPU / Memory

CPU Kaby Lake	INTEL Xeon E3-1245v6 3,70GHz LGA1151
Memory	2x 8GB 2133MHz DDR4 (16GB)

Cooling

Fan type	3x 80mm Hot-swap 4-pin PWM Fans 2x 80mm Rear-exhaust 4-pin PWM Fans
Hot swap Fan	5

On-Board Devices

Keyboard / mouse	USB connector
Chipset	Intel® C226 Express PCH
Audio	HD Audio 7.1 channel connector by Realtek ALC1150
USB ports	8x USB 3.0 (4 rear + 4 via headers) 6xUSB 2.0 (2 rear + 4 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Intel® i217LM & 1x Intel® i210AT)
Embedded RAID Controller	***

Power

Redundant PSU	920W (1+1) high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C
Power requirements	100v -240V AC/50-60Hz/920W

Management

Power Configurations	IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	Ernitec ESR & SuperDoctor III

Dimensions / Weights

Form Factor	3U 19" Rack Frame
Rack Rails	Yes
Dimensions (HxWxD mm)	132x437x647
Weight	Up to 40.02KG (Cabinet 34.02KG)

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, Rack Kit
Part number	PEGASUS-ESR2800R-16R

Options

RAID Battery backup unit	PEGASUS-RAID-BBU
Monitor Card 2 outputs	PEGASUS-ERC-2MONITOR
Monitor Card 4 outputs	PEGASUS-ERC-4MONITOR
Monitor Card 6 outputs	PEGASUS-ERC-6MONITOR
Monitor Card 8 outputs	PEGASUS-ERC-8MONITOR

* Tested with Ernitec Easyview 7.5.10
** Using different cables with the on board graphic card can cause small differences to the images on the monitors connected
*** Tested and not recommended for any Video Surveillance usage
**** Included in configuration

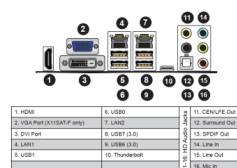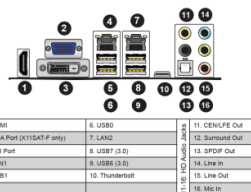We reserve the right to introduct product modifications without notice

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Denmark

Technical Specification PEGASUS-ESR2800-4C

Features

Framerate resolution at 1280 x 720	Viewing up to 1000 fps/sec in H.264 or Recording up to 2800 fps/sec in H.264
System Hard drive with OS	240GB SSD Type M.2 2280
Graphic controller for 3 monitor output	** 1xDVI-I, 1xHDMI , 1xDP (display port) Up to 4096 x 2304
Ernitec ESR software	Yes
Ernitec Pre Server Configurator	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	M.2/SATA/SAS. RAID controller
Storage included	-
Storage bays	4x 3,5" hot swap bays
RAID controller Included	Optional
Storage hard drive options	See upgrade options for more info

OS support

OS	Windows 10 IoT Enterprise 64bit
Upgrade option; Win OS	No

CPU / Memory

CPU Skylake	INTEL Core I7-7700 3,6GHz LGA1151 8M
Memory	2x 8GB 2133MHz DDR4 (16GB)

Cooling

Fan type	1 x 12cm rear exhaust fan

On-Board Devices

Keyboard / mouse	USB connector
Chipset	Intel® Q170 Express
Audio	HD Audio ALC 888S
USB ports	6x USB 3.0 (4 rear + 2 via headers) 5xUSB 2.0 (1 x Type A + 4 via headers)
Network card	Gigabit Ethernet LAN ports (1x Intel®PHY I219LM & 1x Intel®I210-AT)
Embedded RAID Controller	***

Power

Fixed PSU	250W High-efficiency power supplies
Power requirements	100V -240V AC/50-60Hz/250W

Management

Power Configurations	ACPI Power Management, Power-on mode for AC power recovery
Software	Ernitec Pre Server Configurator, Ernitec ESR, SuperDoctor III

Dimensions / Weights

Form Factor	Tower
Dimensions (HxWxD mm)	240.03x210.06x279.40
Weight net.	Up to 8.8KG (Cabinet 6.8 KG)

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	PEGASUS-ESR2800R-4C

Upgrade Options

RAID Card	PEGASUS-8CH-RAID-CARD
RAID Battery backup unit	PEGASUS-RAID-BBU
Monitor Card 2 outputs	PEGASUS-ERC-2MONITOR
Monitor Card 4 outputs	PEGASUS-ERC-4MONITOR
Monitor Card 6 outputs	PEGASUS-ERC-6MONITOR
Monitor Card 8 outputs	PEGASUS-ERC-8MONITOR

1. HDMI	6. USB0		11. CEN/LFE Out
2. VGA Port (X11SAT-F only)	7. LAN2		12. Surround Out
3. DVI Port	8. USB7 (3.0)		13. SPDIF Out
4. LAN1	9. USB6 (3.0)		14. Line In
5. USB1	10. Thunderbolt		15. Line Out
			16. Mic In

*   Tested with Ernitec Easyview 7.5.10
**   Using different cables with the on board graphic card can cause small
        differences to the images on the monitors connected
***   Tested and not recommended for any Video Surveillance usage
**** Included in configuration

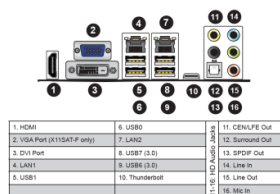We reserve the right to introduct product modifications without notice

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Technical Specification PEGASUS-ERC-CLIENT-V3

Features

Framerate resolution at 1280 x 720	Viewing up to 1000 fps/sec in H.264 or Recording up to 2800 fps/sec in H.264
System Hard drive with OS	1x500 GB SSD
Graphic controller for 3 monitor output	** 1xVGA, 1xDVI-D, 1xHDMI , 1xThunderbolt, up to 4096 x 2304
Ernitec ESR software	Yes
Ernitec Pre Server Configurator	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	M.2/SATA/SAS. JBOD
Storage included	-
Storage bays	3 usable 3,5" internal bays
RAID controller optional	N/A
Storage hard drive options	See upgrade options for more info

OS support

OS	Windows 10 IoT Enterprise 64bit
Upgrade option; Win OS	No

CPU / Memory

CPU Kaby Lake	INTEL Xeon E3-1245v6 3,70GHz LGA1151
Memory	2x 8GB 2133MHz DDR4 (16GB)

Cooling

Fan type	1x 92mm Front Thermal Fan

On-Board Devices

Keyboard / mouse	USB connector
Chipset	Intel® C236 Express PCH
Audio	HD Audio 7.1 channel connector by Realtek ALC1150
USB ports	8x USB 3.0 (4 rear + 4 via headers) 6xUSB 2.0 (2 rear + 4 via headers)
Network card	Dual Gigabit Ethernet LAN ports (1x Intel® i217LM & 1x Intel® i210AT)
Embedded RAID Controller	***

Power

Fixed PSU	500W high-efficiency power supplies
Power requirements	100V -240V AC/50-60Hz/500W

Management

Power Configurations	IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Software	Ernitec Pre Server Configurator, Ernitec ESR, SuperDoctor III, IPMI View

Dimensions / Weights

Form Factor	Tower
Dimensions (HxWxD mm)	426x178x531
Weight net.	Up to 22.7KG (Cabinet 16.7KG)

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	PEGASUS-ERC-CLIENT

Upgrade Options

Monitor Card 2 outputs	PEGASUS-ERC-2MONITOR
Monitor Card 4 outputs	PEGASUS-ERC-4MONITOR
Monitor Card 6 outputs	PEGASUS-ERC-6MONITOR
Monitor Card 8 outputs	PEGASUS-ERC-8MONITOR

1. HDMI	6. USB0		11. CEN/LFE Out
2. VGA Port (X11SAT-F only)	7. LAN2		12. Surround Out
3. DVI Port	8. USB7 (3.0)		13. SPDIF Out
4. LAN1	9. USB6 (3.0)		14. Line In
5. USB1	10. Thunderbolt		15. Line Out
			16. Mic In

11-16. HD Audio Jacks

*   Tested with Ernitec Easyview 7.5.10
**   Using different cables with the on board graphic card can cause small
      differences to the images on the monitors connected
*** Tested and not recommended for any Video Surveillance usage

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