Pegasus V3 Servers

BUILD Concept Series

- 1000 & 2800 Megapixel fps Recording
- Intel i5, i7 or E3 Xeon Kaby Lake CPUs
- 8 or 16 GB DDR4 Ram Options
- 4, 8, 12 or 16 Hot Swappable HDD bays
- ESR V3 – USB Ernitec Smart Recovery®
- Windows® 10 IoT Pro OS installed
- 500Gb SSD System Drive
- IPMI Remote Access
- 12Gbps RAID Cards
- Dual Gigabit Network Card
- 3 year Warranty

Version 3 Performance Increase

The Build-V3 series has been improved with the addition of the new 7th Generation Intel E3 Kaby Lake CPU with Intel Quick Sync ideal for smooth VMS Operation and is optimized to work with CCTV recording Software for sensitive & long-term storage of IP/Megapixel cameras.

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.

Advance Replacement Hard Drives

When you order Ernitec BUILD 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 Monitoring 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 health.

Base Build Configurations

Part Number	Description
BUILD-ESR1000-4T	4 BAY 1000 MEGAPIXEL RECORDING TOWER
BUILD-ESR1000-4R	4 BAY 1000 MEGAPIXEL RECORDING 1U RACK
BUILD-ESR1000-8R	8 BAY 1000 MEGAPIXEL RECORDING 2U RACK
BUILD-ESR2800-8T	8 BAY 2800 MEGAPIXEL RECORDING TOWER
BUILD-ESR2800R-12R	12 BAY 2800 MP RC, 2U RACK inc RAID CARD
BUILD-ESR2800R-16R	16 BAY 2800 MP RC, 3U RACK inc RAID CARD
BUILD-ERC-CLIENT-V3	1000MP VIEWING TOWER
BUILD-ERC-CLIENT-R-V3	1000MP VIEWING RACK

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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
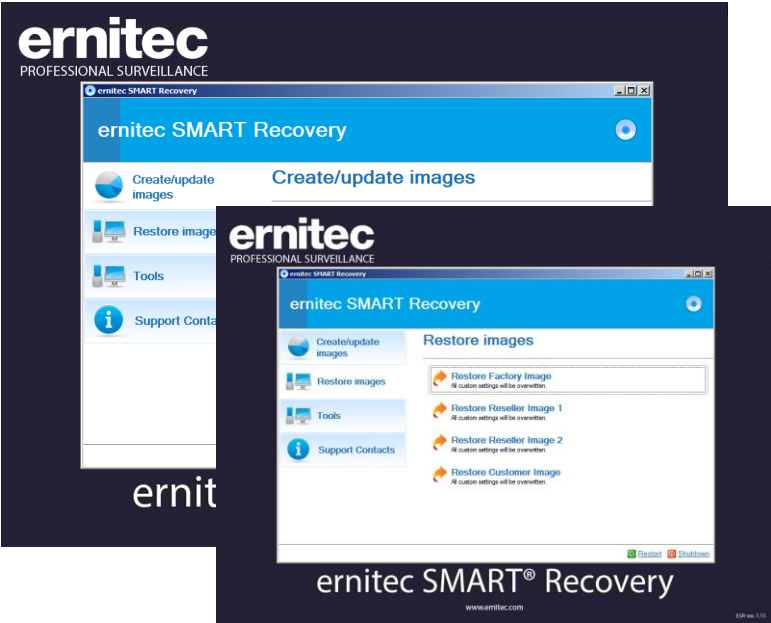
- Backup the complete machine including OS and VMS settings.

- 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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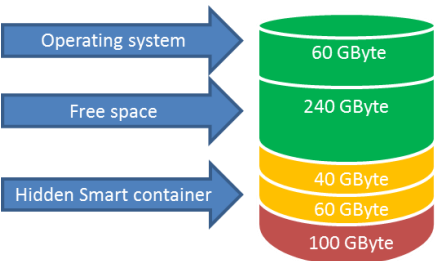
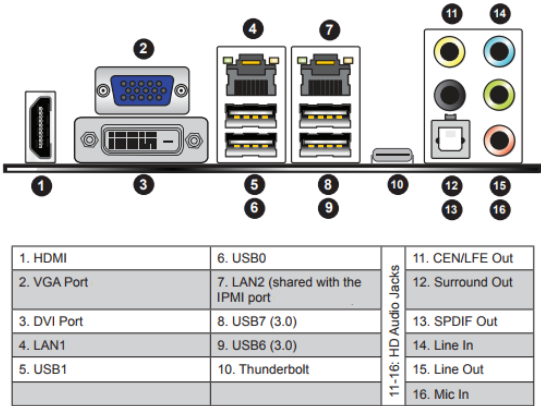## Intelligent Platform Management Interface (IPMI)

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)	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.
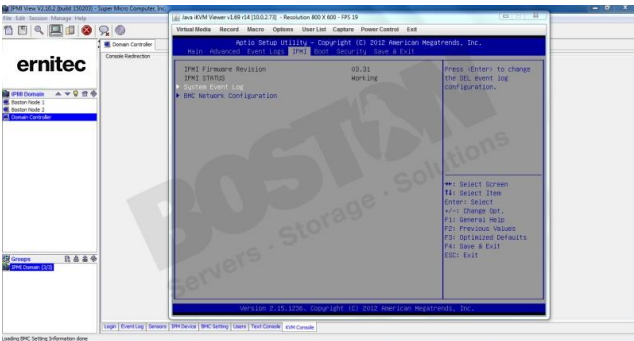
* Note the BUILD-ESR1000-4R will not support IPMI

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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	Option
BUILD-ESR1000-8R	8 BAY 1000 Meg RACK	Option
BUILD-ESR2800R-12R	12 BAY 2800 Meg RACK	Included
BUILD-ESR2800R-16R	16 BAY 2800 Meg RACK	Included

Clients

Part Number	Description	Raid Card
BUILD-ERC-CLIENT-R-V3	1000 MP Viewing RACK	N/A
BUILD-ERC-CLIENT-V3	1000 MP Viewing TOWER	N/A

Part Number Guide

Options	Part Number	Description
Name	BUILD	Design Your Own Product Line
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

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Upgrade Options for Pegasus Build Servers

Customize options for the BUILD-ERS Surveillance servers enable 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 eight Display Port monitors at resolutions up to 2560 x 1600 per output.

Monitor Cards	Description
BUILD-ERC-2MONITOR	GRAPHIC CARD FOR 2 MONITORS, 1 HDMI, 1 DVI output
BUILD-ERC-4MONITOR	GRAPHIC CARD FOR 4 MONITORS, 4 display port, 4 DVI output
BUILD-ERC-6MONITOR	GRAPHIC CARD FOR 6 MONITORS, 6 display port, 6 DVI output
BUILD-ERC-8MONITOR	GRAPHIC CARD FOR 8 MONITORS, 8 display port, 8 DVI output
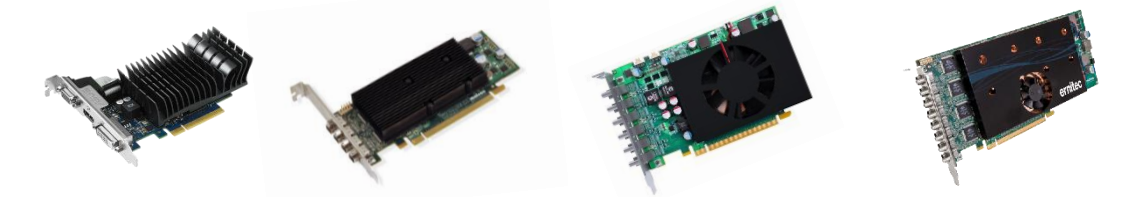
Network Cards	Description
BUILD-NIC-1GB	INTEL GIGABIT NETWORK ADAPTER, 1 extra network port for
BUILD-FIBER-1	FIBER SERVER ADAPTER, 1Gb or 10 Gb Single Port SFP+
BUILD-FIBER-2	FIBER SERVER ADAPTER, 1Gb or 10Gb Dual Port SFP+
BUILD-SFP-LX	FIBRE TRANSCEIVER, 10Gig Base-LR 1000Base-LX
BUILD-SFP-SX	FIBRE TRANSCEIVER, 10Gig Base-SR 1000Base-SX

RAM Options	Description	OS Options	Description
BUILD-CPU-UPGRADE TO 2800MP	Upgrade to: Intel 7th Gen E3 Kaby Lake	BUILD-WIN-10-PRO-STD	WINDOWS 10 Standard Install
BUILD-CPU-UPGRADE TO 2800MPS	Upgrade to: Intel 7th Gen i7 SkyLake	BUILD-WIN2016R-STD-ESR	WINDOWS Standard, 16 cores
BUILD-UPGRADE-RAM-16GB	16 GIG RAM, Addition of 2 x 4 Gig Strips		
BUILD-UPGRADE-RAM-32GB	32 GIG RAM, Addition of 4 x 8 Gig Strips		
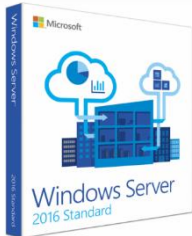
* All Monitor cards can fit into the BUILD-ESR1000-4R using a riser card.
** Only the 2 and 4 way monitor cards fit into the BUILD-ESR1000-8R, 8 Bay 2 U RACK
*** BUILD-CPU-UPGRADE TO 2800MPS is only used for BUILD-ESR1000-4R upgrade to 2800MP

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Additional Parts For Pegasus Build 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	
BUILD-1TB-SATA-HDD-ESR	1 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
BUILD-2TB-SATA-HDD-ESR	2 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
BUILD-3TB-SATA-HDD-ESR	3 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
BUILD-4TB-SATA-HDD-ESR	4 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
BUILD-6TB-SATA-HDD-ESR-NV	6 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
BUILD-8TB-SATA-HDD-ESR	8 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
BUILD-10TB-SATA-HDD-ESR	10 Terabyte 24/7 HDD SATA industrial IntelliPower rpm
SAS Drives	
BUILD-1TB-SAS-HDD-ESR	1 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
BUILD-2TB-SAS-HDD-ESR	2 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
BUILD-3TB-SAS-HDD-ESR	3 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
BUILD-4TB-SAS-HDD-ESR	4 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
BUILD-6TB-SAS-HDD-ESR	6 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
BUILD-8TB-SAS-HDD-ESR	8 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
BUILD-12TB-SAS-HDD-ESR	12 Terabyte 24/7 HDD SAS, 7200rpm optimized for RAID controller
Live Data Base Drives	
BUILD-300GB-SAS-15K-HDD-ESR	300 GB 24/7 HDD SAS, 15000rpm optimized for RAID controller
BUILD-450GB-SAS-15K-HDD-ESR	450 GB 24/7 HDD SAS, 15000rpm optimized for RAID controller
BUILD-600GB-SAS-15K-HDD-ESR	600 GB 24/7 HDD SAS, 15000rpm optimized for RAID controller
BUILD-1800GB-SAS-10K-HDD-ESR	1800 GB 24/7 HDD SAS, 10000rpm optimized for RAID controller
SSD Drives	
HDD-512GB-SSD	24/7 HDD SSD for high speed live database requirements
HDD-1000GB-SSD	24/7 HDD SSD for high speed live database requirements

RAID Options	
BUILD-8CH-RAID-CONT-V2	8ch controller, 12GB/s per port, 0,1,5,6,10,50,60 + hot spare
BUILD-RAID-BBU	RAID CARD BATTERY BACKUP KIT
Build-RAID0-Setting	RAID config setting
Build-RAID1-Setting	RAID config setting
BUILD-RAID1-SYS-SSD	Eatra 500GB SSD System Disc, 2 discs set to RAID-1
Build-RAID5-Setting	RAID config setting
Build-RAID6-Setting	RAID config setting
Build-RAID10-Setting	RAID config setting
Build-RAID50-Setting	RAID config setting
Build-RAIDJOBD-Setting	RAID config setting
Build-hotspare	RAID config setting

RAID 5

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

** The BUILD-ESR1000-4R has space for one card, so you can use either a RAID or Monitor card.

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Technical Specification BUILD-ESR1000-4T

Features

Recording frame rate at resolution 1280 x 720	*Up to 1000 fps/sec in H.264
System Hard drive with OS	1 x 500 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 Options	BUILD-8CH-RAID-CONT-V2 BUILD-RAID-BBU
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
Memory	2 x 4GB 2133MHz DDR4 Non-ECC (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	BUILD-ESR1000-4T

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

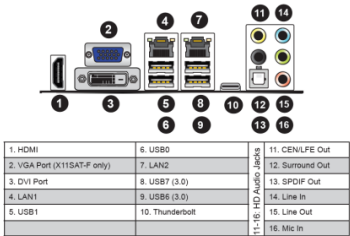We reserve the right to introduct product modifications without notice

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Technical Specification BUILD-ESR2800-8T

Features

Recording frame rate at resolution 1280 x 720	*Up to 2800 fps/sec in H.264
System Hard drive with OS	1 x 500 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 Options	BUILD-8CH-RAID-CONT-V2 BUILD-RAID-BBU
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	BUILD-ESR2800-8T

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
**** Included in configuration

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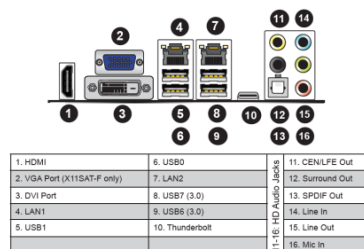Linked in

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Technical Specification BUILD-ESR1000-4R

Features

Recording frame rate at resolution 1280 x 720	*Up to 1000 fps/sec in H.264
System Hard drive with OS	1 x 500 GB SSD fitted to front storage bay
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	M.2/SATA/SAS. RAID controller option
Storage included	-
Storage bays	3 usable 3,5" hot swap bays
RAID controller Options	BUILD-8CH-RAID-CONT-V2 BUILD-RAID-BBU
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 I5-6400 2,7GHz
CPU upgrade option	INTEL Core I7-7700 3,6GHz LGA1151 8M
Memory	2 x 4GB 2133MHz DDR4 Non-ECC (8GB)

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,
Part number	BUILD-ESR1000-4R

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)	HD Audio Jacks	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
***** If installed – the PEGASUS-8CH-RAID-CARD has to be removed.

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Technical Specification BUILD-ESR1000-8R

Features

Recording frame rate at resolution 1280 x 720	*Up to 1000 fps/sec in H.264
System Hard drive with OS	1 x 500 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	M.2/SATA/SAS. RAID controller option
Storage included	-
Storage bays	8 x 3,5" hot swap bays
RAID controller Options	BUILD-8CH-RAID-CONT-V2 BUILD-RAID-BBU
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 I5-6400 2,7GHz
Memory	2 x 4GB 2133MHz DDR4 Non-ECC (8GB)

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,
Part number	BUILD-ESR1000-8R

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
**** Included in configuration

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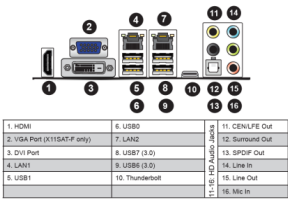
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Ernitec
Tempovej 41
2750 Ballerup
Denmark

Technical Specification BUILD-ESR2800R-12R

Features

Recording frame rate at resolution 1280 x 720	*Up to 2800 fps/sec in H.264
System Hard drive with OS	1 x 500 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 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	2 x 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,
Part number	BUILD-ESR2800R-12R

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
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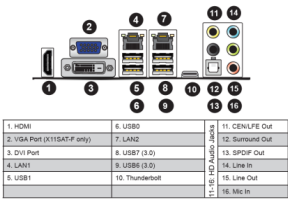**** Included in configuration

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Technical Specification BUILD-ESR2800R-16R

Features

Recording frame rate at resolution 1280 x 720	*Up to 2800 fps/sec in H.264
System Hard drive with OS	1 x 500 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 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,
Part number	BUILD-ESR2800R-16R

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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*** Tested and not recommended for any Video Surveillance usage
**** Included in configuration

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Technical Specification BUILD-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	1 x 500 GB SSD
Graphic controller for 3 monitor output	** 1x DP (Display Port), 1 x DVI-D, 1xHDMI, 1xVGA
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	ALC 888S HD Audio
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)	426x193x525
Weight net.	Up to 14.7KG (Cabinet 12.7KG)

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	BUILD-ERC-CLIENT-V3

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Technical Specification BUILD-ERC-CLIENT-R-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	1 x 500 GB SSD
Graphic controller for 3 monitor output	** 1x DP (Display Port), 1 x DVI-D, 1xHDMI, 1xVGA
Ernitec ESR software	Yes
Ernitec ESR INFO	Yes
Auto-rebooting after power failure	Yes

Storage

Storage interface	SATA/SAS
Storage included	-
Storage bays	Space for 1 x 3,5" internal HDD
RAID controller Included	N/A
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	40mm counter-rotating PWM fan(s)
Number of Fans	2

On-Board Devices

Keyboard / mouse	USB connector
Chipset	Intel® C236
Audio	ALC 888S HD Audio
USB ports	8x USB 3.0 (4 rear + 4 via headers) 6xUSB 2.0 (2 rear + 4 via headers)
Network card	Single Intel® PHY I219LM LAN controller Single Intel® Ethernet Controller I210-AT
Onboard RAID Controller	***

Power

Fixed PSU	350W Gold Level High-efficiency Power Supply
Power requirements	100v -240V AC/50-60Hz/350W

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)	43x437x369
Weight	Up to 8.1KG (Cabinet 6.4KG)

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-ERC-CLIENT-R-V3

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