



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.

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

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 |



- 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

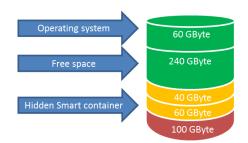
| PROFESSIONAL SURVEILLANCE | Recovery | | |
|---------------------------|---|---|----------|
| Create/update images | Create/update | images | |
| | ESSIONAL SURVEILLANCE | Recovery | ×0× • |
| | Create/update images Restore images | Restore images | |
| ernit | Support Contacts | A cuton satings will be overwritten Restore Customor Image A cuton satings will be overwritten. | |
| | ernited | SMART® Rec | COVERY |

- 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.





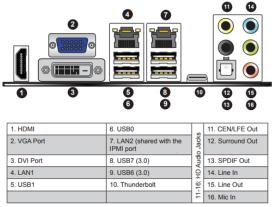
Intelligent Platform Management Interface (IPMI)

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.



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.

| Ve Edit Section Manage Help | | (d) Java iKVM Viewer v1.69 r14 [10.0.2.72] - Resolution | | | |
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| 🗅 🖽 🔍 🛄 🗶 🖄 | R 0 | Virtual Necka Record Macro Options Use | | | |
| | Console Redirection | Aptio Setup Utility Hain Advanced Event Logs [198] | Copyright (C) 2012 America Boot Security Save & Exit | n Negatrends, Inc. | |
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| | | | | olutions | |
| | | h jo | | ++: Select Screen H: Select Iten Enter: Select +/-: Charge Gpt, F1: General Helo F2: Pravious Values F3: Optimized Defaults F4: Save & Exit | |
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* Note the BUILD-ESR1000-4R will not support IPMI





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 |

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 |

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 |







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 | |
| | | 1 |



| 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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www.ernitec.com

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 HDD-1000GB-SSD 24/7 HDD SSD for high speed live database requirements 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 |

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

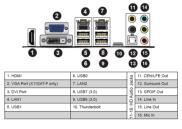
** The BUILD-ESR1000-4R has space for one card, so you can use either a RAID or Monitor card.



Technical Specification BUILD-ESR1000-4T

| Features | | Management | |
|---|---|---|---|
| Recording frame rate at resolution 1280 x 720 | *Up to 1000 fps/sec in H.264 | Power Configurations | IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode |
| System Hard drive with OS | 1 x 500 GB SSD | | for AC power recovery |
| Graphic controller for 3 | ** 1xVGA, 1xDVI-D, 1xHDMI , | - Software | Ernitec Pre Server Configurator, Ernitec |
| monitor output | 1xThunderbolt, up to 4096 x 2304 | Dimensions / Weights | ESR, SuperDoctor III, IPMI View |
| Ernitec ESR software | Yes | | |
| Ernitec Pre Server Configurato | or Yes | Form Factor Dimensions | Tower 426x178x531 |
| Auto-rebooting after | Yes | (HxWxD mm) | 42081788331 |
| power failure | | Weight net. | Up to 22.7KG (Cabinet 16.7KG) |
| Storage | | General | |
| Storage interface | M.2/SATA/SAS. RAID controller option | | |
| Storage included | - | Languages | 25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish |
| Storage bays | 4x 3,5" hot swap bays | Operation conditions | Temperature range from +5°C to +35°C |
| RAID controller Options | BUILD-8CH-RAID-CONT-V2 BUILD-RAID-BBU | Operating Relative Humidity Range | 8% ~ 90% (non-condensing) |
| Storage hard drive options | See upgrade options for more info | _ Warranty | 3 years |
| OS support | | Included accessories | 1x OPTICAL MOUSE BLACK/USB PS2, CAT6 |
| OS | Windows 10 IoT Enterprise 64bit | | 2M GREY, CAT6 2M BLUE, Power Cord |
| Upgrade option; Win OS | No | - | schuko 2M , Power 2M UK |
| CPU / Memory | | Part number | BUILD-ESR1000-4T |
| 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 | | 1日第三日 18 |
| | Realtek ALC1150 | - | |
| USB ports | 8x USB 3.0 (4 rear + 4 via headers) | | |
| Network card | 6xUSB 2.0 (2 rear + 4 via headers) Dual Gigabit Ethernet LAN ports | - | |
| | (1x Intel [®] i217LM & 1x Intel [®] i210AT) | | |
| Embedded RAID Controller | *** | | |
| Power | | | |

| Fixed PSU 5 | 00W high-efficiency power supplies |
|----------------------|------------------------------------|
| Power requirements 1 | 00V -240V AC/50-60Hz/500W |



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We reserve the right to introduct product modifications without notice

Tempovej 41 2750 Ballerup

| * | Tested | with | Ernitec | Easyvi | ew | 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



Technical Specification BUILD-ESR2800-8T

| Features | | Management | |
|---|---|----------------------------|--|
| Recording frame rate at resolution 1280 x 720 | *Up to 2800 fps/sec in H.264 | Power Configurations | IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode |
| System Hard drive with OS | 1 x 500 GB SSD | - | for AC power recovery |
| Graphic controller for 3 | ** 1xVGA, 1xDVI-D, 1xHDMI , | Software | Ernitec Pre Server Configurator, Ernitec |
| monitor output | 1xThunderbolt, up to 4096 x 2304 | | ESR, SuperDoctor III, IPMI View |
| Ernitec ESR software | Yes | Dimensions / Weights | |
| Ernitec Pre Server Configurato | or Yes | Form Factor | Tower/Rack |
| Auto-rebooting after power failure | Yes | - Dimensions (HxWxD mm) | 452x178x647 |
| Storage | | Rack Kit | Option Part No: RACKKIT |
| Storage interface | M.2/SATA/SAS. RAID controller option | Weight net | Up to 29.6KG (Cabinet 23.6KG) |
| Storage included | | General | |
| | | - Languages | 25 including : English, German, French, |
| Storage bays | 8 x 3,5" hot swap bays | | Spanish, Dutch, Danish, Italian, Finnish |
| RAID controller Options | BUILD-8CH-RAID-CONT-V2 BUILD-RAID-BBU | Operation conditions | Temperature range from +5°C to +35°C |
| Storage hard drive options | See upgrade options for more info | Operating Relative | 8% ~ 90% (non-condensing) |
| OS support | | Humidity Range | |
| OS | Windows 10 IoT Enterprise 64bit | Warranty | 3 years |
| Upgrade option; Win OS | No | Included accessories | 1x OPTICAL MOUSE BLACK/USB PS2, CAT6 |
| CPU / Memory | | | 2M GREY, CAT6 2M BLUE, Power Cord schuko 2M , Power 2M UK, |
| CPU Kaby Lake | INTEL Xeon E3-1245v6 3,70GHz LGA1151 | Part number | BUILD-ESR2800-8T |
| Memory | 2x 8GB 2133MHz DDR4 (16GB) | | |
| | | 1 | |
| Cooling Fan type | 4x 80mm Hot-swap 4-pin PWM Fans | | |
| | | | |
| Hot swap Fan | 4 | | C S STOTE OF |
| 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 | <u>a</u> | |
| | (1x Intel [®] i217LM & 1x Intel [®] i210AT) | | |
| Onboard RAID Controller | *** | - | Comment of |

Power requirements

Power Fixed PSU

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

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

*** Tested and not recommended for any Video Surveillance usage

**** Included in configuration

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. CEN

12. Surround

13. SPDIF Out

14. Line In

58 69

7. LAN2

8. USB7 (3.0

9. USB6 (3.0)

2. VGA Port (

3. DVI Port 4. LAN1 5. USB1

> Ernitec Tempovej 41 2750 Ballerup Denmark

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Technical Specification BUILD-ESR1000-4R

| Feeturee | | |
|---|---|---------------------------|
| Features | | Manageme |
| Recording frame rate at resolution 1280 x 720 | *Up to 1000 fps/sec in H.264 | Power Config |
| System Hard drive with OS | 1 x 500 GB SSD fitted to front storage bay | |
| Graphic controller for 3 | ** 1xVGA, 1xDVI-D, 1xHDMI , | Software |
| monitor output | 1xThunderbolt, up to 4096 x 2304 | Dimensions |
| Ernitec ESR software | Yes | |
| Ernitec ESR INFO | Yes | Form Factor Rack Rails |
| Auto-rebooting after | Yes | Dimensions |
| power failure | | (HxWxD mm) |
| Storage | | Weight |
| Storage interface | M.2/SATA/SAS. RAID controller option | General |
| Storage included | - | |
| Storage bays | 3 usable 3,5" hot swap bays | - Languages |
| RAID controller Options | BUILD-8CH-RAID-CONT-V2 BUILD-RAID-BBU | Operation co |
| Storage hard drive options | see upgrade options for more info | Operating Re |
| OS support | | Humidity Rar |
| OS | Windows 10 IoT Enterprise 64bit | Warranty |
| Upgrade option; Win OS | - | Included acce |
| CPU / Memory | | |
| CPU Skylake | INTEL Core I5-6400 2,7GHz | Part number |
| CPU upgrade option | INTEL Core I7-7700 3,6GHz LGA1151 8M | |
| Memory | 2 x 4GB 2133MHz DDR4 Non-ECC (8GB) | |
| | | 1 |
| Cooling Fan type | 80v28mm 4 nin DWM Eans | |
| Fan type | 80x38mm 4-pin PWM Fans | |
| Hot swap Fan | 3 | |
| On-Board Devices | | |
| Keyboard / mouse | USB connector | |
| Chipset Audio | Intel [®] C236 HD Audio 7.1 channel connector by | 2 DIREFFE |
| Audio | Realtek ALC1150 | Contraction of the |
| 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 | *** | 1 |
| Power | | |
| Redundant PSU | 400W (1+1) high-efficiency (94%+) AC-DC | a 4 |
| | Redundant power supplies with PM Bus and I2C | 1 |
| Power requirements | 100v -240V AC/50-60Hz/400W | · |
| | | 1. HDMI |

| 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 | Jacks | 11. CEN/LFE Out |
|-----------------------------|-----------------|--------|------------------|
| 2. VGA Port (X11SAT-F only) | 7. LAN2 | Jac | 12. Surround Out |
| 3. DVI Port | 8. USB7 (3.0) | Audio | 13. SPDIF Out |
| 4. LAN1 | 9. USB6 (3.0) | HDA | 14. Line In |
| 5. USB1 | 10. Thunderbolt | -16: H | 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 | | Management |
|---|---|----------------------------|
| Recording frame rate at resolution 1280 x 720 | *Up to 1000 fps/sec in H.264 | Power Configuration |
| System Hard drive with OS | 1 x 500 GB SSD | |
| Graphic controller for 3 | ** 1xVGA, 1xDVI-D, 1xHDMI , | Software |
| monitor output | 1xThunderbolt, up to 4096 x 2304 | |
| Ernitec ESR software | Yes | Dimensions / W |
| Ernitec ESR INFO | Yes | Form Factor Rack Rails |
| Auto-rebooting after | Yes | |
| power failure | | Dimensions (HxWxD mm) |
| Storage | | Weight |
| Storage interface | M.2/SATA/SAS. RAID controller option | General |
| Storage included | - | |
| Storage bays | 8 x 3,5" hot swap bays | Languages |
| RAID controller Options | BUILD-8CH-RAID-CONT-V2 | |
| | BUILD-RAID-BBU | Operation conditio |
| Storage hard drive options | see upgrade options for more info | Operating Relative |
| OS support | | Humidity Range Warranty |
| OS | Windows 10 IoT Enterprise 64bit | |
| Upgrade option; Win OS | - | Included accessorie |
| CPU / Memory | | |
| CPU Skylake | INTEL Core I5-6400 2,7GHz | Part number |
| 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 | |
| Devenue incorrecto | and I2C | |
| Power requirements | 100v -240V AC/50-60Hz/720W | ••• |

| wiallagement | |
|--------------------------------------|---|
| 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 | ks | 11. CEN/LFE Out |
|-----------------------------|---------------|-------|------------------|
| 2. VGA Port (X11SAT-F only) | 7. LAN2 | Jacks | 12. Surround Out |
| 3. DVI Port | 8. USB7 (3.0) | Vidio | 13. SPDIF Out |
| | | | |

 2 VGA Pert (X11SAT-F only)
 7. LAN2
 91
 12. Surround Out

 3. DVI Port
 8. USB7 (3.0)
 91
 13. SPDF Out

 4. LAN1
 9. USB6 (3.0)
 91
 14. Line in

 5. USB1
 10. Thunderbolt
 91
 15. Line Out

 16. Mic in
 11. SPDF Out
 11. SPDF Out

* 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 BUILD-ESR2800R-12R

| Features | | Management | |
|---|--|--|--|
| Recording frame rate at resolution 1280 x 720 | *Up to 2800 fps/sec in H.264 | Power Configurations | IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode |
| System Hard drive with OS | 1 x 500 GB SSD | | for AC power recovery |
| Graphic controller for 3 | ** 1xVGA, 1xDVI-D, 1xHDMI , | Software | Ernitec ESR & SuperDoctor III |
| monitor output | 1xThunderbolt, up to 4096 x 2304 | Dimensions / Weights | |
| Ernitec ESR software | Yes | Form Factor | 2U 19" Rack Frame |
| Ernitec ESR INFO | Yes | Rack Rails | Yes |
| Auto-rebooting after power failure | Yes | Dimensions (HxWxD mm) | 89x437x647 |
| Storage | | Weight | Up to 32KG (Cabinet 24.95KG) |
| Storage interface | SATA/SAS with RAID controller | General | |
| Storage included | - | Languages | 25 including : English, German, French, |
| Storage bays | 12 x 3,5" hot swap bays | | Spanish, Dutch, Danish, Italian, Finnish |
| RAID controller Included | High Performance 16ch controller, 12Gbps 0,1,5,6,10,50,60 + hot spare | Operation conditions | Temperature range from +5°C to +35°C |
| Storage hard drive options | see upgrade options for more info | Operating Relative | 8% ~ 90% (non-condensing) |
| OS support | | Humidity Range Warranty | 3 years |
| OS | Windows 10 IoT Enterprise 64bit | Included accessories | 1x OPTICAL MOUSE BLACK/USB PS2, CAT6 |
| Upgrade option; Win OS | - | Included accessories | 2M GREY, CAT6 2M BLUE, Power Cord |
| CPU / Memory | | Part number | schuko 2M , Power 2M UK, BUILD-ESR2800R-12R |
| CPU Kaby Lake | INTEL Xeon E3-1245v6 3,70GHz LGA1151 | i i art nambei | DOILD LONZOOON 12N |
| Memory | 2x 8GB 2133MHz DDR4 (16GB) | | |
| Cooling | | | |
| Fan type | 3x 80mm Hot-swap 4-pin PWM Fans | 1 | |
| | 2x 80mm Rear-exhaust 4-pin PWM Fans | | |
| Hot swap Fan | 5 | In the second second second second | THE OWNER THE PARTY OF THE PART |
| On-Board Devices | | Records and the second se | |
| 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- | 1 | |

| 1. HDMI | 6 9 | 1 | 11. CENILFE Out |
|-----------------------------|-----------------|----------|------------------|
| 2. VGA Port (X11SAT-F only) | 7. LAN2 | Jacks | 12. Surround Out |
| 3. DVI Port | 8. USB7 (3.0) | Audio | 13. SPDIF Out |
| 4. LAN1 | 9. USB6 (3.0) | ∎¥ e | 14. Line In |
| 5. USB1 | 10. Thunderbolt | 19 19 | 15. Line Out |
| | | 15 | 16. Mic In |

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** Using different cables with the on board graphic card can cause small differences to the images on the monitors connected

and I2C

DC Redundant power supplies with PMBus

100v -240V AC/50-60Hz/920W

*** Tested and not recommended for any Video Surveillance usage

**** Included in configuration

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Power requirements



Technical Specification BUILD-ESR2800R-16R

| e . | | | |
|---|--|--|---|
| Features | | Management | |
| Recording frame rate at resolution 1280 x 720 | *Up to 2800 fps/sec in H.264 | Power Configurations | IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode |
| System Hard drive with OS | 1 x 500 GB SSD | | for AC power recovery |
| Graphic controller for 3 | ** 1xVGA, 1xDVI-D, 1xHDMI , | Software | Ernitec ESR & SuperDoctor III |
| monitor output | 1xThunderbolt, up to 4096 x 2304 | Dimensions / Weights | ; |
| Ernitec ESR software | Yes | Form Factor | 3U 19" Rack Frame |
| Ernitec ESR INFO | Yes | Rack Rails | Yes |
| Auto-rebooting after power failure | Yes | Dimensions (HxWxD mm) | 132x437x647 |
| Storage | | Weight | Up to 40.02KG (Cabinet 34.02KG) |
| Storage interface | SATA/SAS with RAID controller | General | |
| Storage included | - | Languages | 25 including : English, German, French, |
| Storage bays | 16 x 3,5" hot swap bays | | Spanish, Dutch, Danish, Italian, Finnish |
| RAID controller Included | High Performance 16ch controller, 12Gbps 0,1,5,6,10,50,60 + hot spare | Operation conditions | Temperature range from +5°C to +35°C |
| Storage hard drive options | see upgrade options for more info | Operating Relative Humidity Range | 8% ~ 90% (non-condensing) |
| OS support | | Warranty | 3 years |
| OS | Windows 10 IoT Enterprise 64bit | Included accessories | 1x OPTICAL MOUSE BLACK/USB PS2, CAT6 |
| Upgrade option; Win OS | - | | 2M GREY, CAT6 2M BLUE, Power Cord |
| CPU / Memory | | Part number | schuko 2M , Power 2M UK, BUILD-ESR2800R-16R |
| CPU Kaby Lake | INTEL Xeon E3-1245v6 3,70GHz LGA1151 | raithumber | BUILD-L3K2800K-10K |
| Memory | 2x 8GB 2133MHz DDR4 (16GB) | • | |
| Cooling | | | |
| Fan type | 3x 80mm Hot-swap 4-pin PWM Fans | - | |
| Hot swap Fan | 2x 80mm Rear-exhaust 4-pin PWM Fans 5 | | |
| On-Board Devices | 5 | | |
| Keyboard / mouse | USB connector | | |
| Chipset | Intel [®] C226 Express PCH | | |
| Audio | HD Audio 7.1 channel connector by | | CEPTINGE & CONTRACTORIS & CONTRACTORISE |
| | , Realtek ALC1150 | | |
| USB ports | 8x USB 3.0 (4 rear + 4 via headers) | | |
| | 6xUSB 2.0 (2 rear + 4 via headers) | | and the second se |
| Network card | Dual Gigabit Ethernet LAN ports | | |
| | (1x Intel [®] i217LM & 1x Intel [®] i210AT) | | TS 2778 HHHHH HH |
| Embedded RAID Controller | | Ta atta | M. S.M. |
| Power | | | |

| 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 |

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| 00 | 6 8 0 | | 0 |
|-----------------------------|-----------------|----------|------------------|
| 1. HDMI | 6. USB0 | _ | 11. CENILFE Out |
| 2. VGA Port (X11SAT-F only) | 7. LAN2 | Jacks | 12. Surround Out |
| 3. DVI Port | 8. USB7 (3.0) | Audio | 13. SPDIF Out |
| 4. LAN1 | 9. USB6 (3.0) | 1¥ | 14. Line In |
| 5. USB1 | 10. Thunderbolt | 19 19 | 15. Line Out |
| | | 12. | 16. Mic In |

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| * | Tested | with | Ernitec | Easyview | 7.5.10 |
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|---|--------|------|---------|----------|--------|

- 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



Technical Specification BUILD-ERC-CLIENT-V3

| Features | | Management | |
|--|--|---|---|
| Framerate resolution at 1280 x 720 System Hard drive with OS | *Viewing up to 1000 fps/sec in H.264 or Recording up to 2800 fps/sec in H.264 1 x 500 GB SSD | Power Configurations | IPMI, ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery |
| Graphic controller for 3 monitor output | ** 1x DP (Display Port), 1 x DVI-D, 1xHDMI, 1xVGA | - Software | Ernitec Pre Server Configurator, Ernitec ESR, SuperDoctor III, IPMI View |
| Ernitec ESR software | Yes | Dimensions / Weight | S |
| Ernitec Pre Server Configurat | or Yes | Form Factor | Tower |
| Auto-rebooting after power failure | Yes | - Dimensions (HxWxD mm) Weight net. | 426x193x525 Up to 14.7KG (Cabinet 12.7KG) |
| Storage | | | op to 14.7KG (Cabinet 12.7KG) |
| Storage interface | M.2/SATA/SAS. JBOD | General | |
| Storage included | - | - Languages - | 25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish |
| Storage bays | 3 usable 3,5" internal bays | Operation conditions | Temperature range from +5°C to +35°C |
| RAID controller optional | N/A | Operating Relative | 8% ~ 90% (non-condensing) |
| Storage hard drive options | See upgrade options for more info | Humidity Range | |
| OS support | | Warranty | 3 years |
| OS | Windows 10 IoT Enterprise 64bit | Included accessories | 1x OPTICAL MOUSE BLACK/USB PS2, CAT6 |
| Upgrade option; Win OS | No | - | 2M GREY, CAT6 2M BLUE, Power Cord schuko 2M , Power 2M UK |
| CPU / Memory | | Part number | BUILD-ERC-CLIENT-V3 |
| 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 | | | Constant Const |
| 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) | | |
| Network card | 6xUSB 2.0 (2 rear + 4 via headers) Dual Gigabit Ethernet LAN ports (1x Intel® i217LM & 1x Intel® i210AT) | | |
| Embedded RAID Controller | *** | | |
| Power | | | |
| Fixed PSU | 500W high-efficiency power supplies | _ | |
| Power requirements | | - | |

Power requirements

* 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

100V -240V AC/50-60Hz/500W

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Technical Specification BUILD-ERC-CLIENT-R-V3

| | | _ |
|--|---|----|
| Features | | Ν |
| Framerate resolution at | Viewing up to 1000 fps/sec in H.264 or | Ρ |
| 1280 x 720 | Recording up to 2800 fps/sec in H.264 | |
| System Hard drive with OS | 1 x 500 GB SSD | S |
| Graphic controller for 3 | ** 1x DP (Display Port), 1 x DVI-D, | 2 |
| monitor output Ernitec ESR software | 1xHDMI, 1xVGA Yes | D |
| | | F |
| Ernitec ESR INFO | Yes | R |
| Auto-rebooting after power failure | Yes | D |
| Storage | | (|
| Storage interface | SATA/SAS | V |
| Storage included | - | G |
| Storage bays | Space for 1 x 3,5" internal HDD | La |
| RAID controller Included | N/A | |
| KAID controller included | N/A | Ō |
| Storage hard drive options | see upgrade options for more info | 0 |
| OS support | | H |
| OS | Windows 10 IoT Enterprise 64bit | V |
| Upgrade option; Win OS | - | lr |
| CPU / Memory | | |
| CPU Kaby Lake | INTEL Xeon E3-1245v6 3,70GHz LGA1151 | Ρ |
| 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) | |
| Network card | 6xUSB 2.0 (2 rear + 4 via headers) Single Intel [®] PHY I219LM LAN controller | |
| Network card | 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 | S |
| 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 | |
| | Spanish, Dutch, Danish, Italian, Finnish |
| Operation conditions Operating Relative | Spanish, Dutch, Danish, Italian, Finnish Temperature range from +5°C to +35°C |
| Operation conditions Operating Relative Humidity Range | Spanish, Dutch, Danish, Italian, Finnish Temperature range from +5°C to +35°C 8% ~ 90% (non-condensing) |



* Tested with Ernitec Easyview 7.5.10

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