

Ernitec BUILD-ESR1800R

3U19" RACK Surveillance Server



- > Supports up to 1800 megapixel fps recording
- > Dual Gigabit network card
- > Dual PSU
- > 16 Hot Swappable HDD bays
- > 1GB Graphic controller with VGA, DVI and HDMI outputs
- > ESR – smart recovery solution
- > ESR INFO
- > Dual hard drives with Windows® OS installed in a RAID 1
- > 3 year Warranty

The Build-ESR1800R is a powerful video surveillance server that is optimized to work with CCTV VMS Software for sensitive & long-term viewing and storage of IP/Megapixel cameras.

The Build-ESR1800R is engineered to optimize the way the processor, memory, graphics, OS and software technology work together to deliver massive recording power.

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

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

The special Health hardware management software and the ESR INFO notification server give you early warning if a problem is detected.

Ernitec Smart Recovery software – Ernitec Build-ESR1800R

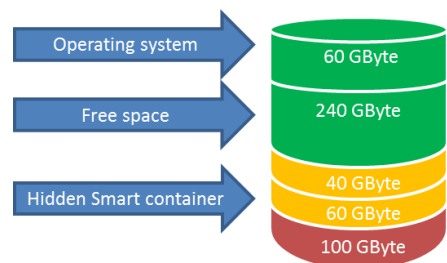
Ernitec Smart Recovery is the first and currently only recovery tool for surveillance servers that is designed especially for the surveillance market.

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



- Backup the complete machine including OS and VMS settings.
- With ESR you no longer have to think about having a backup of every system you use.
- The most reliable recovery solution for surveillance servers on the market.
- Choose between Factory, Reseller 1, Reseller 2 and Customer image that can boot your server, even after a severe crash.

- Recover the complete machine including OS and VMS settings.
- ESR works on Windows 7, 8, 2008 & 2012 operating system and its applications without re-installation.
- ESR is pre-installed on all Ernitec ESR servers



Upgrade options – Ernitec Build-ESR1800R

Customize options for the Build-ERS surveillance server, enables you to design the server to the project requirements.

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

Drive Options

SATA Drives

Build-1TB-SATA-HDD-ESR	24/7 HDD SATA industrial 7200rpm
Build-2TB-SATA-HDD-ESR	24/7 HDD SATA industrial 7200rpm
Build-3TB-SATA-HDD-ESR	24/7 HDD SATA industrial 7200rpm
Build-4TB-SATA-HDD-ESR	24/7 HDD SATA industrial 7200rpm

SAS Drives

Build-1TB-SAS-HDD-ESR	24/7 HDD SAS, 7200rpm optimized for RAID controller
Build-2TB-SAS-HDD-ESR	24/7 HDD SAS, 7200rpm optimized for RAID controller
Build-3TB-SAS-HDD-ESR	24/7 HDD SAS, 7200rpm optimized for RAID controller
Build-4TB-SAS-HDD-ESR	24/7 HDD SAS, 7200rpm optimized for RAID controller
Build-300GB-SAS-15K-HDD-ESR	24/7 HDD SAS, 15000rpm optimized for RAID controller

SSD Drives

BUILD-512GB-SSD-HDD-ESR	24/7 HDD SSD for high speed live database requirements
BUILD-1TB-SSD-HDD-ESR	24/7 HDD SSD for high speed live database requirements



RAID

Build-8ch-RAID-controller	8ch controller, 6 GB/s per port, 0,1,5,6,10,50,60 + hot spare
Build-RAID0-Setting	RAID config setting
Build-RAID1-Setting	RAID config setting
Build-RAID5-Setting	RAID config setting
Build-RAID10-Setting	RAID config setting
Build-RAID50-Setting	RAID config setting
Build-RAID6-Setting	RAID config setting
Build-RAIDJOB-Setting	RAID config setting
Build-hotspare	RAID config setting

OS

BUILD-WIN2012R2-STD-ESR	OS upgrade option to Windows Server 2012
Build-Upgrade-OS-SSD-2-ESR	Upgrade OS drive to two SSD drive



CPU

BUILD-CPU-UPGRADE TO 1800MP-ES	INTEL XEON E3-1245V3, 3,3GHz LGA1150 upgrade option for Build-ESR600
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Graphic controller

Build-ERC-4monitor	Graphic card for 4 monitors with 4 display port or 4 DVI output
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Upgrade options – Ernitec Build-ESR1800R

Customize options for the Build-ERS surveillance server, enables you to design the server to the project requirements. This includes installation of analog capture cards for hybrid recorders and Ernitec EVR VMS software all pre loaded in our factory.



Software Options

BUILD-EVR	Factory installation of Ernitec EVR VMS
Build-EVR-PRO-1	Factory installation of Ernitec EVR Pro Version, 1 channel IP NVR & DVR license, Max 5 users, 1 server, 50 cameras per server.
BUILD-EVR-ENT-1	Factory installation of Ernitec EVR Enterprise Version, 1 channel IP NVR & DVR license, max 10 users, 5 servers, 64 cameras per server

Software Options

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

BUILD-EVR-16ANA-CARD-ONLY	Factory installation of 16 Channel High performance H264 Hybrid capture card, hardware compression with full D1 resolution on all channels resolution up to 400fps@D1 (704 x 576 pixels) BUILD-ESR600 will accept 2 x 16ch Analog capture cards
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Technical Specification – Ernitec Build-ESR1800R

Features		Power	
Recording frame rate at resolution 1280 x 720	*Up to 1800/sec in H.264	Redundant PSU	920W (1+1) high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C
System Hard drive with OS	2 in RAID 1 (1+1)	Power requirements	100v -240V AC/50-60Hz/500W
Optical drive	DVD-RW	Management	
Graphic controller for 2 monitor output	**1GB - 1xVGA, 1xDVI-D, 1xHDMI , 1xThunderbolt (op to 2560x1600)	Power Configurations	ACPI / ACPM Power Management, Main Switch Override Mechanism, Wake-On-LAN (WOL) header, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery
Ernitec ESR software	Yes	Software	SuperDoctor III
Ernitec ESR INFO	Yes	Dimensions / Weights	
Auto-rebooting after power failure	Yes	Form Factor	3U 19" RACK
Storage		Rack rails	Yes
Storage interface	SATA / SAS	Dimensions (HxWxD mm)	132x437x648
Storage included	-	Weight	34,7KG
Storage bays	16x 3,5" hot swap bays	General	
RAID controller	16ch controller, 6 GB/s per port, 0,1,5,6,10,50,60 + hot spare	Languages	25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish
Storage hard drive options	see upgrade options for more info	Operation conditions	Temperature range from +5°C to +35°C
OS support		Operating Relative Humidity Range warranty	8% ~ 90% (non-condensing) 3 years
OS	Windows 7 ultimate 64bit	Included accessories	1x OPTICAL MOUSE BLACK/USB PS2, CAT6 2M GREY, CAT6 2M BLUE, Power Cord schuko 2M , Power 2M UK,
Upgrade option; Win OS	Windows 2012 R2 64bit	Part number	Build-ESR1800R
CPU / Memory			
CPU	INTEL XEON E3-1245V3, 3,3GHz LGA1150		
Memory	4x 2GB DDR3 1333MHz (8GB)		
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	Embedded Onboard RAID for system hard drive		



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