# CORE SCALABLE
# Server Series

### Massive Power
The CORE scalable series is a powerful video surveillance server range with support for up to (2) Intel® Xeon® Scalable processors, which ensures computing performance. The servers are optimized to work with CCTV recording Software for sensitive & long-term storage of hundreds of IP/Megapixel cameras.

### Optimized For Surveillance
The CORE range is engineered to fit the requirements we have in the video surveillance industry. It is engineered to optimize the way the processor, memory, graphics, OS and software technology work together to deliver massive recording power. but also to fit the VMS software, the physical dimensions of the servers are in serveral form factors.

### Tuned And Tested
All systems have been hardware tested for 24 hours, and tuned with many unique systems settings before leaving the production line, to make sure that the server will run 24 hours per day. Year after year.

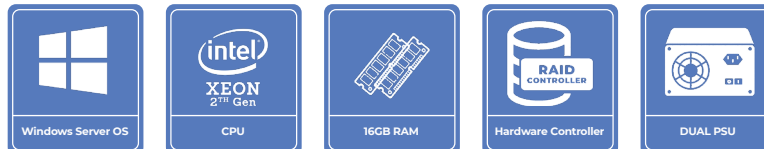### Battery Backed 12Gbps Raid Controller
It is equipped with an 8 channel 12Gbps hardware RAID controller, the controller is also including battery back up (BBU) to insure dataloss in case of power failure.

### Storage & Power Supplys
Video storage options are available with up to (36) 3.5" enterprise SAS/SATA drives and support of RAID for data protection and optimized performance. Dual power supplies provides proper power resources and redundancy.

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# CORE-5208-V2
# 2U Rack server



| Windows Server OS | CPU | 16GB RAM | Hardware Controller | DUAL PSU |

## Specifications

| Features | |
|---|---|
| System Hard drive with OS | 1 x 500GB M.2 NVMe SSD |
| 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 drive bay |
| **OS Support** | |
| Operation system | Windows Server 2019 STD |
| **CPU / Memory** | |
| Xeon Scalable CPU | Intel® Xeon® Silver 4210 Processor |
| Memory | 2 x 8GB 2666MHz DDR4 ECC (16GB) |
| Graphics | Aspeed AST2500 BMC (1 x VGA) |
| **Cooling** | |
| Fan Type | 3 x 8cm (7000 RPM) hot-swap PWM cooling fan(s) |
| Hot swap Fan | 3 |
| **On-Board Devices** | |
| Keyboard / mouse | USB connector |
| Chipset | Intel® C621 |
| USB ports | 4 USB 2.0 ports (2 rear + 2 via headers)<br>3 USB 3.2 Gen1 ports (2 via headers + 1 Type A) |
| Network card | Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512 |
| RAID Controller | Low Profile 12Gb/s Eight-Port SAS Internal RAID Adapter |
| **Power** | |
| PSU | 1U 740W Redundant Platinum Power Supply W/PMbus |
| Power requirements | 100V -240V AC/50-60Hz/740W |

# CORE-5208-V2
# 2U Rack server

## Specifications

| Management | |
|---|---|
| Power Configurations | ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery |
| Software | SuperDoctor® 5 |
| IPMI | ASPEED AST2500 |
| **Dimensions / Weights** | |
| Form Factor | 2U Rack Server |
| Dimensions (HxWxD mm) | 89x437x647mm |
| Weight net. | Up to 29KG (Cabinet 23,59KG) |
| **General** | |
| Languages | 25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish, Norwegian. |
| Operation conditions | Temperature range from +5°C to +35°C |
| Operating Relative Humidity Range | 8% - 90% (non-condensing) |
| Warranty | 3 years |
| Part number | CORE-5208-V2 |

## Backside Connections:



### Back Panel I/O Ports

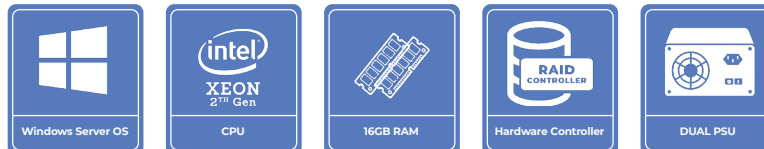| No. | Description | No. | Description |
|---|---|---|---|
| 1. | VGA port | 5. | LAN2 |
| 2. | Dedicated IPMI LAN | 6. | LAN1 |
| 3. | USB1 (2.0) | 7. | Unit Identifier Switch |
| 4. | USB0 (2.0) | | |

*Tested with Ernitec VMS*   *
*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*   ***

# CORE-5316-V2
# 3U Rack server



| | | | | |
|---|---|---|---|---|
| **Windows Server OS** | **CPU** | **16GB RAM** | **Hardware Controller** | **DUAL PSU** |

## Specifications

| Features | |
|---|---|
| System Hard drive with OS | 1 x 500GB M.2 NVMe SSD |
| Auto-rebooting after power failure | Yes |
| **Storage** | |
| Storage interface | M.2/SATA/SAS. RAID controller option |
| Storage included | - |
| Storage Bays | 16 x 3.5" hot-swap drive bay |
| **OS Support** | |
| Operation system | Windows Server 2019 STD |
| **CPU / Memory** | |
| Xeon Scalable CPU | Intel® Xeon® Silver 4210 Processor |
| Memory | 2 x 8GB 2666MHz DDR4 ECC (16GB) |
| Graphics | Aspeed AST2500 BMC (1 x VGA) |
| **Cooling** | |
| Fan Type | 3 x 8cm hot-swap redundant PWM cooling fan(s) 2 x 8cm hot-swap exhaust fan(s) & air shroud |
| Hot swap Fan | 5 |
| **On-Board Devices** | |
| Keyboard / mouse | USB connector |
| Chipset | Intel® C621 |
| USB ports | 4 USB 2.0 ports (2 rear + 2 via headers) 3 USB 3.2 Gen1 ports (2 via headers + 1 Type A) |
| Network card | Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512 |
| RAID Controller | Low Profile 12Gb/s Eight-Port SAS Internal RAID Adapter |
| **Power** | |
| PSU | 1U 800/1000W Redundant Titanium Single Output Power Supply W/PMbus |
| Power requirements | 100V -240V AC/50-60Hz/1000W |

# CORE-5316-V2
# 3U Rack server

## Specifications

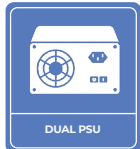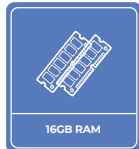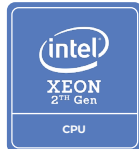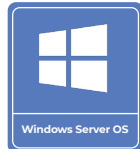| Management | |
|---|---|
| Power Configurations | ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery |
| Software | SuperDoctor® 5 |
| IPMI | ASPEED AST2500 |
| **Dimensions / Weights** | |
| Form Factor | 3U Rack Server |
| Dimensions (HxWxD mm) | 132x437x647mm |
| Weight net. | Up to 45KG (Cabinet 32,60KG) |
| **General** | |
| Languages | 25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish, Norwegian. |
| Operation conditions | Temperature range from +5°C to +35°C |
| Operating Relative Humidity Range | 8% - 90% (non-condensing) |
| Warranty | 3 years |
| Part number | CORE-5316-V2 |

## Backside Connections:



### Back Panel I/O Ports

| No. | Description | No. | Description |
|---|---|---|---|
| 1. | VGA port | 5. | LAN2 |
| 2. | Dedicated IPMI LAN | 6. | LAN1 |
| 3. | USB1 (2.0) | 7. | Unit Identifier Switch |
| 4. | USB0 (2.0) | | |

# CORE-5424-V2
# 4U Rack server



| | | | | |
|---|---|---|---|---|
| **Windows Server OS** | **CPU** | **16GB RAM** | **Hardware Controller** | **DUAL PSU** |

## Specifications

| Features | |
|---|---|
| System Hard drive with OS | 1 x 500GB M.2 NMVe SSD |
| Auto-rebooting after power failure | Yes |
| **Storage** | |
| Storage interface | M.2/SATA/SAS. RAID controller option |
| Storage included | - |
| Storage Bays | 24 x 3.5" hot-swap drive bay |
| **OS Support** | |
| Operation system | Windows Server 2019 STD |
| **CPU / Memory** | |
| Xeon Scalable CPU | Intel® Xeon® Silver 4210 Processor |
| Memory | 2 x 8GB 2666MHz DDR4 ECC (16GB) |
| Graphics | Aspeed AST2500 BMC (1 x VGA) |
| **Cooling** | |
| Fan Type | 3 x 8cm hot-swap redundant PWM cooling fan(s) 2 x 8cm hot-swap exhaust fan(s) & air shroud |
| Hot swap Fan | 5 |
| **On-Board Devices** | |
| Keyboard / mouse | USB connector |
| Chipset | Intel® C621 |
| USB ports | 4 USB 2.0 ports (2 rear + 2 via headers) 3 USB 3.2 Gen1 ports (2 via headers + 1 Type A) |
| Network card | Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512 |
| RAID Controller | Low Profile 12Gb/s Eight-Port SAS Internal RAID Adapter |
| **Power** | |
| PSU | 1U 1200W/1000W Redundant Titanium Power Supply W/PMbus |
| Power requirements | 100V -240V AC/50-60Hz/1200W |

# CORE-5424-V2
# 4U Rack server

## Specifications

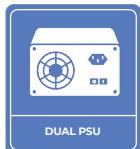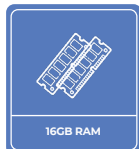| Management | |
|---|---|
| Power Configurations | ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery |
| Software | SuperDoctor® 5 |
| IPMI | ASPEED AST2500 |
| **Dimensions / Weights** | |
| Form Factor | 4U Rack Server |
| Dimensions (HxWxD mm) | 178x437x660mm |
| Weight net. | Up to 53KG (Cabinet 34,04KG) |
| **General** | |
| Languages | 25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish, Norwegian. |
| Operation conditions | Temperature range from +5°C to +35°C |
| Operating Relative Humidity Range | 8% - 90% (non-condensing) |
| Warranty | 3 years |
| Part number | CORE-5424-V2 |

## Backside Connections:



| Back Panel I/O Ports | | | |
|---|---|---|---|
| No. | Description | No. | Description |
| 1. | VGA port | 5. | LAN2 |
| 2. | Dedicated IPMI LAN | 6. | LAN1 |
| 3. | USB1 (2.0) | 7. | Unit Identifier Switch |
| 4. | USB0 (2.0) | | |

# CORE-5436-V2
# 4U Rack server

| Windows Server OS | CPU | 16GB RAM | Hardware Controller | DUAL PSU |

## Specifications

| Features | |
|---|---|
| System Hard drive with OS | 1 x 500GB M.2 NVMe SSD |
| Auto-rebooting after power failure | Yes |
| **Storage** | |
| Storage interface | M.2/SATA/SAS. RAID controller option |
| Storage included | - |
| Storage Bays | 36 x 3.5" hot-swap drive bay |
| **OS Support** | |
| Operation system | Windows Server 2019 STD |
| **CPU / Memory** | |
| Xeon Scalable CPU | Intel® Xeon® Silver 4210 Processor |
| Memory | 2 x 8GB 2666MHz DDR4 ECC (16GB) |
| Graphics | Aspeed AST2500 BMC (1 x VGA) |
| **Cooling** | |
| Fan Type | 7 x 8cm (7000 RPM) hot-swap PWM cooling fan(s) |
| Hot swap Fan | 7 |
| **On-Board Devices** | |
| Keyboard / mouse | USB connector |
| Chipset | Intel® C621 |
| USB ports | 4 USB 2.0 ports (2 rear + 2 via headers)<br>3 USB 3.2 Gen1 ports (2 via headers + 1 Type A) |
| Network card | Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512 |
| RAID Controller | Low Profile 12Gb/s Eight-Port SAS Internal RAID Adapter |
| **Power** | |
| PSU | 1U 1280W Redundant Platinum 95%+ Super Quiet Power Supply with PMbus |
| Power requirements | 100V -240V AC/50-60Hz/1280W |

# CORE-5436-V2
# 4U Rack server

## Specifications

| Management | |
|---|---|
| Power Configurations | ACPI Power Management, Keyboard Wakeup from Soft-Off, Power-on mode for AC power recovery |
| Software | SuperDoctor® 5 |
| IPMI | ASPEED AST2500 |
| **Dimensions / Weights** | |
| Form Factor | 4U Rack Server |
| Dimensions (HxWxD mm) | 178x437x699mm |
| Weight net. | Up to 70KG (Cabinet 41,28KG) |
| **General** | |
| Languages | 25 including : English, German, French, Spanish, Dutch, Danish, Italian, Finnish, Norwegian. |
| Operation conditions | Temperature range from +5°C to +35°C |
| Operating Relative Humidity Range | 8% - 90% (non-condensing) |
| Warranty | 3 years |
| Part number | CORE-5436-V2 |

## Backside Connections:



### Back Panel I/O Ports

| No. | Description | No. | Description |
|---|---|---|---|
| 1. | VGA port | 5. | LAN2 |
| 2. | Dedicated IPMI LAN | 6. | LAN1 |
| 3. | USB1 (2.0) | 7. | Unit Identifier Switch |
| 4. | USB0 (2.0) | | |

# CORE-SCALABLE
# Hardware options

## CORE Scalable series options

The following options here are for CORE scalable series, they are created to match the hardware and performance of the Xeon CPU and motherboards in this series.

These hardware options will allow you to upgrade the individual servers performance., there are options to upgrade the RAM to a maixmum of 64GB, also you can upgrade the standard installed CPU with 2 options to higher performance XEON CPU versions. And for all 3 CPU options you will also be able to upgrade each CPU version to have DUAL CPU's in the server.

| CORE-5-UPGRADE-RAM-32GB-V2 | RAM upgrade |
|---|---|
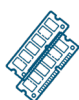
RAM upgrade to a total of 32GB RAM for CORE Scalable    No: W125954244

| CORE-5-UPGRADE-RAM-64GB-V2 | RAM upgrade |
|---|---|

RAM upgrade to a total of 64GB RAM for CORE Scalable    No: W125954245

| CORE-5-2X-CPU-V2 | Upgrade to DUAL CPU |
|---|---|

Add an aditional XEON Silver 4210 CPU 10C/20T 2.20/3.20GHz    No: W125954239

| CORE-5-1X-CPU-G6226R-V2 | CPU Upgrade |
|---|---|

Upgrade to 1 x XEON Gold 6226R CPU 16C/32T 2.90/3.90GHz    No: W125954240

| CORE-5-2X-CPU-G6226R-V2 | Upgrade to DUAL CPU |
|---|---|

Upgrade to 2 x XEON Gold 6226R CPU 16C/32T 2.90/3.90GHz    No: W125954241

| CORE-5-1X-CPU-G6242R-V2 | CPU Upgrade |
|---|---|

Upgrade to 1 x XEON Gold 6242R CPU 20C/40T 3.10/4.10GHz    No: W125954242

| CORE-5-2X-CPU-G6242R-V2 | Upgrade to DUAL CPU |
|---|---|

Upgrade to 2 x XEON Gold 6242R CPU 20C/40T 3.10/4.10GHz    No: W125954243

# CORE-SCALABLE
# Ernitec Harddrives

## Hard drive selection

We have a wide range of hard drives to go with your Ernitec 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 advanced 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.

| SATA Model | Size | Form Factor | Part Number |
|---|---|---|---|
| CORE-1TB-SATA-HDD | 1 TB | 3,5" HDD, 24/7, SATA industrial IntelliPower rpm | W124547810 |
| CORE-2TB-SATA-HDD | 2 TB | 3,5" HDD, 24/7, SATA industrial IntelliPower rpm | W124647700 |
| CORE-3TB-SATA-HDD | 3 TB | 3,5" HDD, 24/7, SATA industrial IntelliPower rpm | W124847360 |
| CORE-4TB-SATA-HDD | 4 TB | 3,5" HDD, 24/7, SATA industrial IntelliPower rpm | W124347673 |
| CORE-6TB-SATA-HDD | 6 TB | 3,5" HDD, 24/7, SATA industrial IntelliPower rpm | W124547814 |
| CORE-8TB-SATA-HDD | 8 TB | 3,5" HDD, 24/7, SATA industrial IntelliPower rpm | W124847361 |
| CORE-10TB-SATA-HDD | 10 TB | 3,5" HDD, 24/7, SATA industrial IntelliPower rpm | W125182400 |
| CORE-12TB-SATA-HDD | 12 TB | 3,5" HDD, 24/7, SATA industrial IntelliPower rpm | W124682950 |
| CORE-14TB-SATA-HDD | 14 TB | 3,5" HDD, 24/7, SATA industrial IntelliPower rpm | W125147301 |
| **SAS Model** | **Size** | **Form Factor** | **Part Number** |
| CORE-1TB-SAS-HDD | 1 TB | 3,5" HDD, 24/7, 7200rpm, optimized for RAID controller | W124847357 |
| CORE-2TB-SAS-HDD | 2 TB | 3,5" HDD, 24/7, 7200rpm, optimized for RAID controller | W124647699 |
| CORE-3TB-SAS-HDD | 3 TB | 3,5" HDD, 24/7, 7200rpm, optimized for RAID controller | W124947816 |
| CORE-4TB-SAS-HDD | 4 TB | 3,5" HDD, 24/7, 7200rpm, optimized for RAID controller | W125047521 |
| CORE-6TB-SAS-HDD | 6 TB | 3,5" HDD, 24/7, 7200rpm, optimized for RAID controller | W125247186 |
| CORE-8TB-SAS-HDD | 8 TB | 3,5" HDD, 24/7, 7200rpm, optimized for RAID controller | W124647702 |
| CORE-10TB-SAS-HDD | 10 TB | 3,5" HDD, 24/7, 7200rpm, optimized for RAID controller | W125182399 |
| CORE-12TB-SAS-HDD | 12 TB | 3,5" HDD, 24/7, 7200rpm, optimized for RAID controller | W124483081 |
| CORE-14TB-SAS-HDD | 14 TB | 3,5" HDD, 24/7, 7200rpm, optimized for RAID controller | W124682952 |

| SAS Model | Size | Form Factor | Part Number |
|---|---|---|---|
| CORE-300GB-SAS-15K-HDD | 300GB | 3,5" HDD, 24/7, 15000rpm, optimized for RAID controller | W124847359 |
| CORE-450GB-SAS-15K-HDD | 450GB | 3,5" HDD, 24/7, 15000rpm, optimized for RAID controller | W124947817 |
| CORE-600GB-SAS-15K-HDD | 600GB | 3,5" HDD, 24/7, 15000rpm, optimized for RAID controller | W125147303 |
| CORE-1800GB-SAS-10K-HDD | 1800GB | 3,5" HDD, 24/7, 10000rpm, optimized for RAID controller | W124847356 |

## RAID configuration

| Setting | Description | Part Number |
|---|---|---|
| CORE-HOTSPARE | Adds one drive as a standby drive | W124647703 |
| CORE-RAID0-SETTING | Adds a RAID 0 configuration to selected drives | W125047524 |
| CORE-RAID1-SETTING | Adds a RAID 1 configuration to selected drives | W124647704 |
| CORE-RAID5-SETTING | Adds a RAID 5 configuration to selected drives | W124947823 |
| CORE-RAID6-SETTING | Adds a RAID 6 configuration to selected drives | W124547818 |
| CORE-RAID10-SETTING | Adds a RAID 10 configuration to selected drives | W124747741 |
| CORE-RAID50-SETTING | Adds a RAID 50 configuration to selected drives | W125147307 |