



GRANDE
VITESSE
SYSTEMS



Metropolis Server Pack with GVS9000 Custom System Design 8 - 480 core in a 1U - 8U Rack Space





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SYSTEMS

9000 1U 1012G-MTF

- GVS9000: 1XU 12xCPU
- 1U Chassis: 90001XU12XCPUP1



Key Features

- 1U Short Depth UP 12-Cores with 8 DIMMs support
- High-efficiency Gold Level Power supply
- Dedicated LAN for System management (IPMI 2.0)



Processor Support & Chipset

8/12-core Opteron™ 6100 or Xeon® 5600

Memory Capacity

Up to 128 GB R/UDDR3 ECC 1066/1333 Mhz in 8 DIMMs

Expansion Slots

1 PCI-E 2.0 x8 (in x16) slot

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

Drive Bays

4x Hot-swappable /SATA Hard Drive Bays

Power Supply

350W High-efficiency Gold Level

System Cooling

4-pin PWM fans w/ Optimal Fan Speed Control



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9000 1U 1048X-REN

- GVS9000: 1XU 48xCPU
- 1U Chassis: 90001XU48XCPUP1



Key Features

- 1U Short Depth UP 12-Cores with 8 DIMMs support
- High-efficiency Render Node
- Optional 10Gbit network interface
- Dedicated LAN for System management (IPMI 2.0)

redhat



NetBSD



Processor Support & Chipset

8/12-core Opteron™ 6100 or Xeon® 5600

Memory Capacity

Up to 128 GB R/UDDR3 ECC 1066/1333 Mhz in 8 DIMMs

Expansion Slots

1 PCI-E 2.0 x8 (in x16) slot

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

Drive Bays

1x Hot-swappable /Firmware drive

Power Supply

350W High-efficiency Gold Level

System Cooling

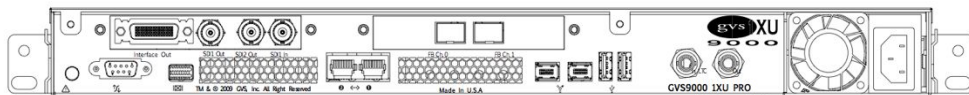
4-pin PWM fans w/ Optimal Fan Speed Control



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9000 1U 1244G-MGF

- GVS9000: 1XU 12xCPU
- 1U Chassis: 90001XU12XCPUP1



Key Features

- 1U 4 and 8 Cores, Density optimized, Max RAM 96GB OS
- High-efficiency 750W Removable Power supply
- Dedicated Sony 9-pin RS422 or TCP/IP controlled
- LAN for System management and 21" Rack Deep



Processor Support & Chipset

- 1 4/8-core Xeon® 5500

Memory Capacity

- 2 Up to 256 GB DDR3 ECC 1066 Mhz in 12 DIMMs

Expansion Slots

- 3 2 PCI-E 2.0 x16 slot

I/O ports

- 4 1 VGA, 1 COM, 2 Gbit LAN, 2 USB 2.0 ports.
1 LAN for system management

Drive Bays

- 5 1x Swappable SATA SSD Drive Bays
128GB-1,000GB

Power Supply

- 6 750W High-efficiency removable Gold Level Power

System Cooling

- 7 14x Heavy-duty Fans w/ Optimal Fan Speed Control





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9000 1U 1444G-NTF

- GVS9000: 1XU 24xCPU
- 1U Chassis: 90001XU24XCPUP1



Key Features

- 1U 24 Cores, Density optimized & Cost effective
- High-efficiency Gold Level Power supply
- Dedicated LAN for System management (IPMI 2.0)

redhat



NetBSD



solaris

ubuntu



Processor Support & Chipset

2x4/8/12-core Series

Memory Capacity

Up to **256** GB R/UDDR3 ECC 1066/1333 Mhz in 16 DIMMs

Expansion Slots

2 PCI-E 2.0 x8 slot

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

Drive Bays

4x Hot-swappable SATA Hard Drive Bays

Power Supply

560W High-efficiency Gold Level Power

System Cooling

4x Heavy-duty Fans w/ Optimal Fan Speed Control





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9000 1U 1444G-URF

- GVS9000: 1XU 24xCPU
- 1U Chassis: 90001XU24XCPU 2P



Key Features

- UIO, Flexibility & Easy Upgradeable
- High-efficiency Gold Level Redundant Power supply
- Dedicated LAN for System management (IPMI 2.0)

redhat



Processor Support & Chipset

2x4/8/12-Series

Memory Capacity

Up to **256** GB R/UDDR3 ECC 1066/1333 Mhz in 16 DIMMs

Expansion Slots

1 UIO

1 PCI-E 2.0 x8 slot

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.

1 dedicated LAN for system management (IPMI2.0)

Drive Bays

4x Hot-swappable SAS/SATA Hard Drive Bays

Power Supply

700W High-efficiency Gold Level Redundant W/PM Bus

System Cooling

4x Heavy-duty Fans w/ Optimal Fan Speed Control



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9000 1U 1042G-TF

- GVS9000: 1XU 48xCPU
- 1U Chassis: 90001XU48XCPUP1



Key Features

- 1U 48 Cores, High Performance Computing
- PCI Express 2.0 x16 slot (best for IB QDR support)
- RAID 0.1.10 Configuration via onboard SATA control



Processor Support & Chipset

4x4/8/12-core

Memory Capacity

Up to **512** GB R/UDDR3 ECC 1066/1333 Mhz in 32 DIMMs

Expansion Slots

1 PCI-E 2.0 x16

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

Drive Bays

3x Hot-swappable SATA Hard Drive Bays

Power Supply

1400W High-efficiency Gold Level power W/PM Bus

System Cooling

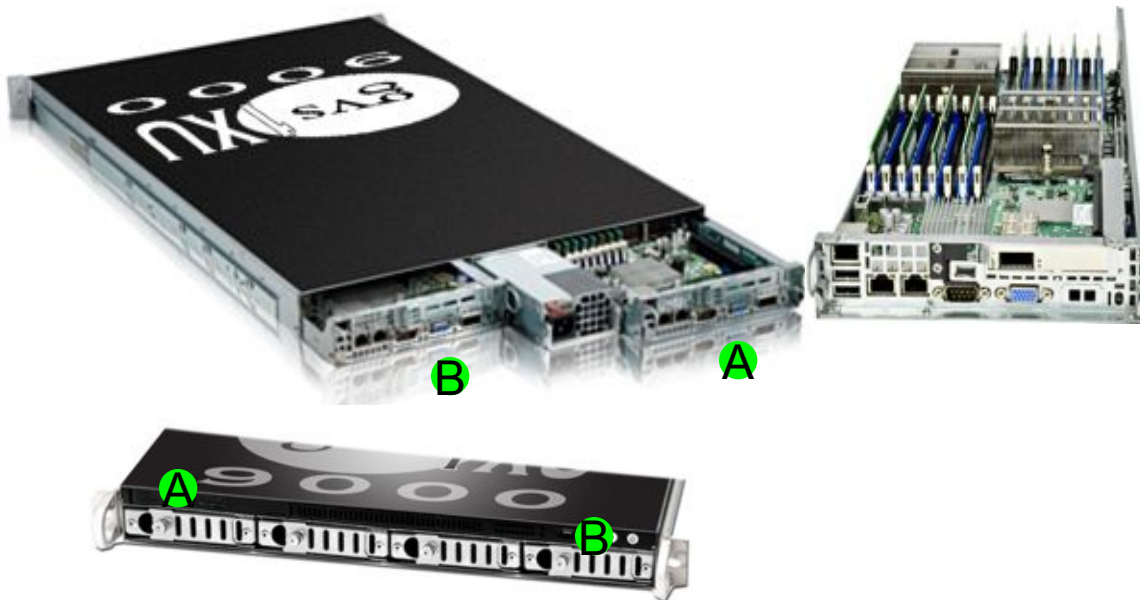
6x Heavy-duty Fans w/ Optimal Fan Speed Control



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9000 1U Dual 1800

- GVS9000: 1XU 24xCPU Dual
- 1U Chassis: 90001XU48XCPUP1



3 HDD Per Node
RAID 0 & 1

Key Features

- Two High efficiency Hot-Pluggable Nodes in 1U
Cost & maximize power and space efficiency
- Mellanox Connect-X IB w/ single QSFP connector)



Processor Support & Chipset

2x4/8/12-core (Per Node) 48-core in 1U

Memory Capacity

Up to **256 GB** R/UDDR3 ECC 1066/1333 Mhz in 16 DIMMs (Per Node)

Expansion Slots

1 Low profile PCI-e Gen 2.0 in x16 slots (Per Node)

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.

1 dedicated LAN for system management (IPMI2.0) (Per Node)

Drive Bays

4x Hot-swappable SATA Hard Drive Bays

Power Supply

900W High-efficiency Gold Level Power supply

System Cooling

4x PWM Fans w/ Optimal Fan Speed Control





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9000 1U 1042G-24C

- GVS9000: 1XU 2GPU
- 1U Chassis: 90001XU2GPUP1



Processor Support & Chipset

2x4/8/12-Series

Memory Capacity

Up to **256 GB** R/UDDR3 ECC 1066/1333 Mhz in 16 DIMMs

Expansion Slots

2 full height full length PCI-e Gen 2.0 in x16 slots
1 low-profile PCI-e x8 Gen 2.0 in x16 slot

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

Drive Bays

3x Hot-swappable SAS/SATA Hard Drive Bays

Power Supply

1400W High-efficiency Gold Level

System Cooling

8x counter-rotating fans w/ Optimal Fan Speed Control

Key Features

- Two Double Width full Height/Length GPU
- 1 Low profile add-on card
- Dedicated LAN for System management (IPMI 2.0)





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9000 2U 2042G-12C

- GVS9000: 2XU 12xCPU
- 2U Chassis: 90002XU12XCPUP2



Key Features

- 4/8/12 Cores High Performance Computing with OS
- High-efficiency Dual 750W Redundant PS
- 4xSATAII/SAS Drive Bay
- Blu-Ray Burner /DVD RW
- 128GB-500GB SSD Booth Drive



1

Processor Support & Chipset

4/8-core Xeon Series

2

Memory Capacity

Up to 256 GB DDR3 ECC 1066 Mhz in 12 DIMMs

3

Expansion Slots

2 PCI-E 2.0 x16 slot

4

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 2 USB 2.0 ports.
10Gbit, 6x1GbitLAN, 4/8GB Fibre and Video I/O

5

Drive Bays

4x Hot-Swappable SATA/SSD Drive Bays
1,000GB or 2,000GB Drive, One cold spare
Blu-Ray Burner /DVD RW ± Drive,
128-500GB SSD Hot-Swap Drive

6

Power Supply

Dual 750W High-efficiency removable
Gold Level Power

7

System Cooling

14x Heavy-duty Fans w/ Optimal Fan
Speed Control, Front Air Filter for





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9000 2U 2024X-24C

- GVS9000: 2XU 24xCPUX
- 2U Chassis: 90002XU48XCPUP2



Key Features

- 8/16/24 Cores High Performance Computing with OS
- High-efficiency 2x750W Removable PS
- 2xSATAII/SAS Drive Bay
- 128GB-500GB SSD Booth Drive



Processor Support & Chipset

- 1 2x4/8-core Series

Memory Capacity

- 2 Up to 256 GB R/UDDR3 ECC 1066 Mhz in 3 2 DIMMs

Expansion Slots

- 3 2x2 PCI-E 2.0 x16

I/O ports

- 4 2xDVI, 2x1 COM, 2x2 Gbit LAN, 2x2 USB 2.0 ports.
2x10GBit, 2x6x1GbitLAN, 2x4/8GB Fibre and Video I/O

Drive Bays

- 5 2x Removable SATA SSD Drive Bays

Power Supply

- 6 2x750W High-efficiency Gold Level Removable power

System Cooling

- 7 2x7x 4-pin PWM Fans w/ Optimal Fan Speed Control

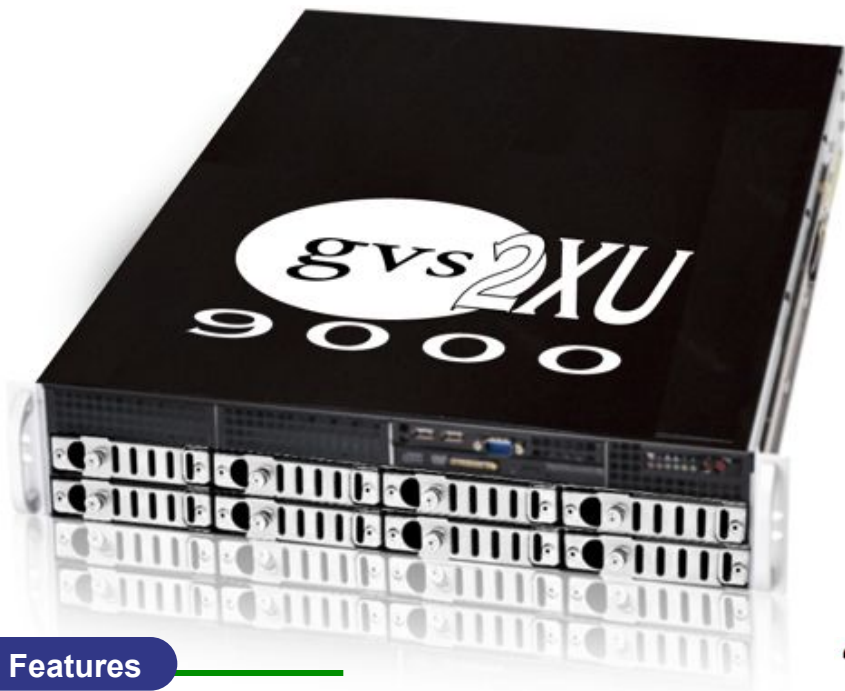




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9000 2U 2444G-URF

- GVS9000: 2XU 24xCPU
- 2U SKY: 90002XU24XCPU2P



Key Features

- UIO, Flexibility and Highly Upgradeable
- High-efficiency Gold Level Redundant Power supply
- Dedicated LAN for System management (IPMI 2.0)



Processor Support & Chipset

2x4/8/12-core Series

Memory Capacity

Up to **256** GB R/UDDR3 ECC 1066/1333 Mhz in 16 DIMMs

Expansion Slots

1 UIO slot
3 PCI-E 2.0 x8 slot

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

Drive Bays

8x Hot-swappable 3.5 or 16x 2.5" SAS/SATA or Hard Drive Bays

Power Supply

720W High-efficiency Gold Level Redundant power w/PM Bus

System Cooling

4-pin PWM FAN w/ Optimal Fan Speed Control





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9000 2U 2042G-48C

- GVS9000: 2XU 48xCPU
- 2U Chassis: 90002XU48XCPUP2



Key Features

- 48 Cores High Performance Computing with UIO slot
- High-efficiency Gold Level 1400W Redundant Power supply
- LSI 2008 SAS2 RAID

Processor Support & Chipset

- 1 4x4/8/12-core Series

Memory Capacity

- 2 Up to 512 GB R/UDDR3 ECC 1066/1333 Mhz in 3 2 DIMMs

Expansion Slots

- 3 2 PCI-E 2.0 x16
1 PCI-E 2.0 x8 slot and 1 UIO or x8 slot

I/O ports

- 4 1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

Drive Bays

- 5 6x Hot-swappable SAS/SATA Hard Drive Bays

Power Supply

- 6 1400W High-efficiency Gold Level
Redundant power

System Cooling

- 7 6x 4-pin PWM Fans w/ Optimal Fan Speed Control





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9000 2XU 3218G-24C

- GVS9000: 2XU 48xCPU
- 2U Chassis: 90002XU24XCPU18G4FP2



Key Features

- 24 Cores High Performance 2U Router SAN and NAS
- 4x8GB Fibre SAN and 4-18x10GB Gigabit Interface Option
- 2x RAID1 SSD Internal
- SAN/NAS Server Storage and Network Management

Processor Support & Chipset

24-core Series

Memory Capacity

Up to **32-512 GB R/UDDR3 ECC 1333 Mhz**
2 DIMMs

10Gigabit Interface NAS Option

4-18 10Gbit SFP

8GB Interface Fibre SAN Option

4-8 8GB SFP

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

Drive Bays

2xSSD 120GB Internale RAID1

Power Supply

900W High-efficiency Redundant power

System Cooling

6x 4-pin PWM Fans w/ Optimal Fan Speed Control

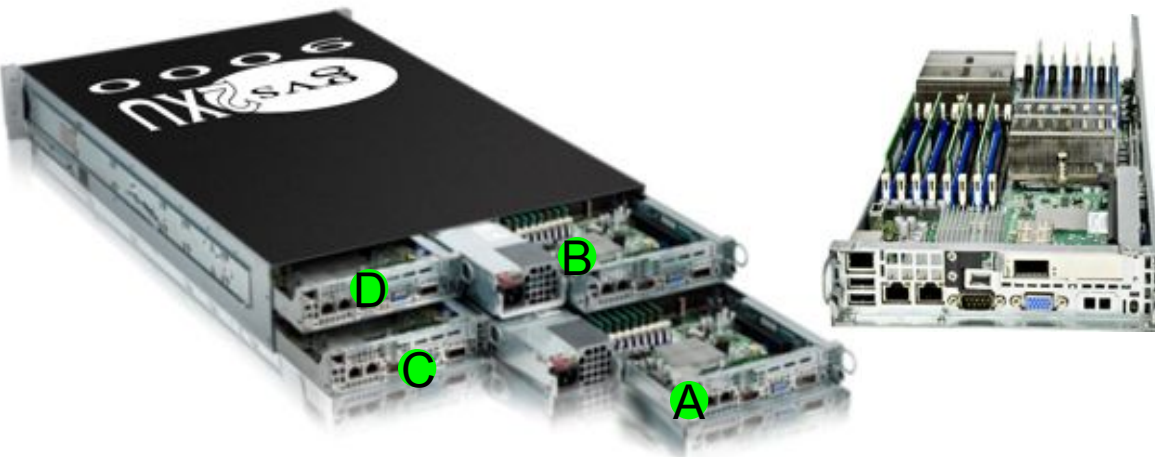




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9000 2U Quad 2200

- GVS9000: 2XU 96xCPU
- 2U Chassis: 90002XU96XCPUP2



3 HDD Per Node
RAID 0, 1, 3, 5, 6 1+0 and 0+1

Key Features

- Four High efficiency Hot-Pluggable Nodes in 2U
Reduce cost & maximize power efficiency
- Mellanox Connect-X IB w/ single QSFP connector)



Processor Support & Chipset

2x4/8/12-core (Per Node) 96-core in 2U

Memory Capacity

Up to **256 GB** R/UDDR3 ECC 1066/1333 Mhz in 16 DIMMs (Per Node)

Expansion Slots

1 Low profile PCI-e Gen 2.0 in x16 slots (Per Node)

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0) (Per Node)

Drive Bays

12x Hot-swappable SATA Hard Drive Bays

Power Supply

1400W High-efficiency Gold Level
Redundant Power supply

System Cooling

4x PWM Fans w/ Optimal Fan Speed
Control





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9000 4NXU 1642G-12C

- GVS9000: 4NXU 12xCPU + 36TB SAN
- 2U Chassis: 90004NXU12XC162



Key Features

- 12 Cores High Performance 36TB SAN Hardware CTR OS
- 4x8GB Fibre SAN and 2x10GB Gigabit Interface Option
- 16xSAS2 RAID CTR with 8GB SAN Fibre Interface
- 4x2.5" SAS Drive bay for SSD or 1TB disk

Processor Support & Chipset

6/12-core Series

Memory Capacity

Up to 128 GB R/UDDR3 ECC 1333 Mhz in 8 DIMMs

Expansion Slots

2 PCI-E 2.0 x16 slot & 2 PCI-E 2.0 x4 slot

I/O ports

2xIEEEb, 2x1 Gbit LAN, 4 USB 2.0, Optical digital audio In/Out, stereo line-level In/Out ports

802.11n Wi-Fi and Bluetooth 2.1

Drive Bays

16x3.5" Drive Hot-Swap 6G SAS/SATA Bay 32TB
4x2.5" Drive Hot-Swap 6G SAS/SATA 4TB DDR
Blu-Ray Burner /DVD RW ± Drive,

8GB Fibre Drive Host Interface

Dual 4440CTR 4x8GB Fibre + SAS exp. port

Power Supply

1x1400W + 650W High-efficiency Power

System Cooling

6x 4-pin PWM Fans w/ Optimal Fan Speed Control





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9000 4XU 4042G-12C

- GVS9000: **2XU 48xCPU**
- 2U Chassis: **90002XU48XCPUP2**



Key Features

- 48 Cores High Performance Computing with UIO slot
- High-efficiency Gold Level 1400W Redundant Power supply
- LSI 2008 SAS2 RAID



1 Processor Support & Chipset

12-core Series

2 Memory Capacity

Up to **512 GB** R/UDDR3 ECC 1066/1333 Mhz in 3 2 DIMMs

3 Expansion Slots

2 PCI-E 2.0 x16
1 PCI-E 2.0 x8 slot and 1 UIO or x8 slot

4 I/O ports

1 DVI, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

5 Drive Bays

6x Hot-swappable SAS/SATA Hard Drive Bays

6 Power Supply

1400W High-efficiency Gold Level
Redundant power

7 System Cooling

6x 4-pin PWM Fans w/ Optimal Fan Speed Control





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9000 4XU 8042G-64C

- GVS9000: 4XU 64xCPU
- 8U Chassis: 90004XU64XCPUP4



Key Features

- 32 Cores High Performance I/O Support with OS
- 21" Rack Deep space
- Removable Power Module
- 4x2.5" SSD Removable OS Disk



Processor Support & Chipset

8x4/8-core Xeon 5400 or 5500 Series

Memory Capacity

Up to 4x256 GB DDR3 ECC 1066 Mhz in 12 DIMMs

Expansion Slots

4x2 PCI-E 2.0 x16 slot

I/O ports

4x(1 VGA, 1 COM, 2 Gbit LAN, 2 USB 2.0 ports.
1 LAN for system management)

Drive Bays

4x1x Swappable SATA SSD Drive Bays
128GB-1,000GB

Power Supply

4x750W High-efficiency removable
Gold Level Power

System Cooling

4x14 Heavy-duty Fans w/ Optimal Fan
Speed Control





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SYSTEMS

9000 7XU 7042G-64C

- GVS9000: 7XU 64xCPU
- 8U Chassis: 90007XU64XCPUP8



Key Features

- 56 Cores High Performance I/O Support with OS
- 21" Rack Deep space
- Removable Power Module
- 7x2.5" SSD Removable OS Disk



Processor Support & Chipset

7x4/8-core Xeon Series

Memory Capacity

Up to 7x256 GB DDR3 ECC 1066 Mhz in 12 DIMMs

Expansion Slots

7x2 PCI-E 2.0 x16 slot

I/O ports

7x(1 VGA, 1 COM, 2 Gbit LAN, 2 USB 2.0 ports.

1 LAN for system management)

Drive Bays

7x1x Swappable SATA SSD Drive Bays
128GB-1,000GB

Power Supply

7x750W High-efficiency removable
Gold Level Power

System Cooling

7x14 Heavy-duty Fans w/ Optimal Fan
Speed Control





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SYSTEMS

9000 7XU 7042G-48C

- GVS9000: 2XU 48xCPU
- 2U Chassis: 90002XU48XCPUP2



Key Features

- 12 Cores High Performance 24TB SAN Hardware CTR OS
- 4x8GB Fibre SAN and 2x10GB Gigabit Interface Option
- 24xSAS2 RAID CTR with 8GB SAN Fibre Interface
- 1x SAN/NAS Server Storage and Network Management



1

Processor Support & Chipset

4x4/8/12-core Series

2

Memory Capacity

Up to 512 GB R/UDDR3 ECC 1066/1333 Mhz in 3 2 DIMMs

3

Expansion Slots

2 PCI-E 2.0 x16
1 PCI-E 2.0 x8 slot and 1 UIO or x8 slot

4

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

5

Drive Bays

6x Hot-swappable SAS/SATA Hard Drive Bays

6

Power Supply

1400W High-efficiency Gold Level
Redundant power

7

System Cooling

6x 4-pin PWM Fans w/ Optimal Fan Speed Control





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9000 7XU 7042G-48C

- GVS9000: 2XU 48xCPU
- 2U Chassis: 90002XU48XCPUP2



Key Features

- 12 Cores High Performance 24TB SAN Hardware CTR OS
- 4x8GB Fibre SAN and 2x10GB Gigabit Interface Option
- 24xSAS2 RAID CTR with 8GB SAN Fibre Interface
- 1x SAN/NAS Server Storage and Network Management



1

Processor Support & Chipset

4x4/8/12-core Series

2

Memory Capacity

Up to 512 GB R/UDDR3 ECC 1066/1333 Mhz in 3 2 DIMMs

3

Expansion Slots

2 PCI-E 2.0 x16
1 PCI-E 2.0 x8 slot and 1 UIO or x8 slot

4

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

5

Drive Bays

6x Hot-swappable SAS/SATA Hard Drive Bays

6

Power Supply

1400W High-efficiency Gold Level
Redundant power

7

System Cooling

6x 4-pin PWM Fans w/ Optimal Fan Speed Control





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9000 2XU 3218G-24C

- GVS9000: 2XU 48xCPU
- 2U Chassis: 90002XU24XCPU18G4FP2

Nomadic

Metropolis
18x10-Gbit

VTR/DDR

Key Features

- 12 Cores High Performance 24TB SAN Hardware CTR OS
- 4x8GB Fibre SAN and 2x10GB Gigabit Interface Option
- 24xSAS2 RAID CTR with 8GB SAN Fibre Interface
- 1x SAN/NAS Server Storage and Network Management

Processor Support & Chipset

24-core Series

Memory Capacity

Up to **32-512 GB R/UDDR3 ECC 1333 Mhz**
2 DIMMs

10Gigabit Interface NAS Option

4-18 10Gbit SFP

8GB Interface Fibre SAN Option

4-8 8GB SFP

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

Drive Bays

2xSSD 120GB Internale RAID1

Power Supply

900W High-efficiency Redundant power

System Cooling

6x 4-pin PWM Fans w/ Optimal Fan Speed Control

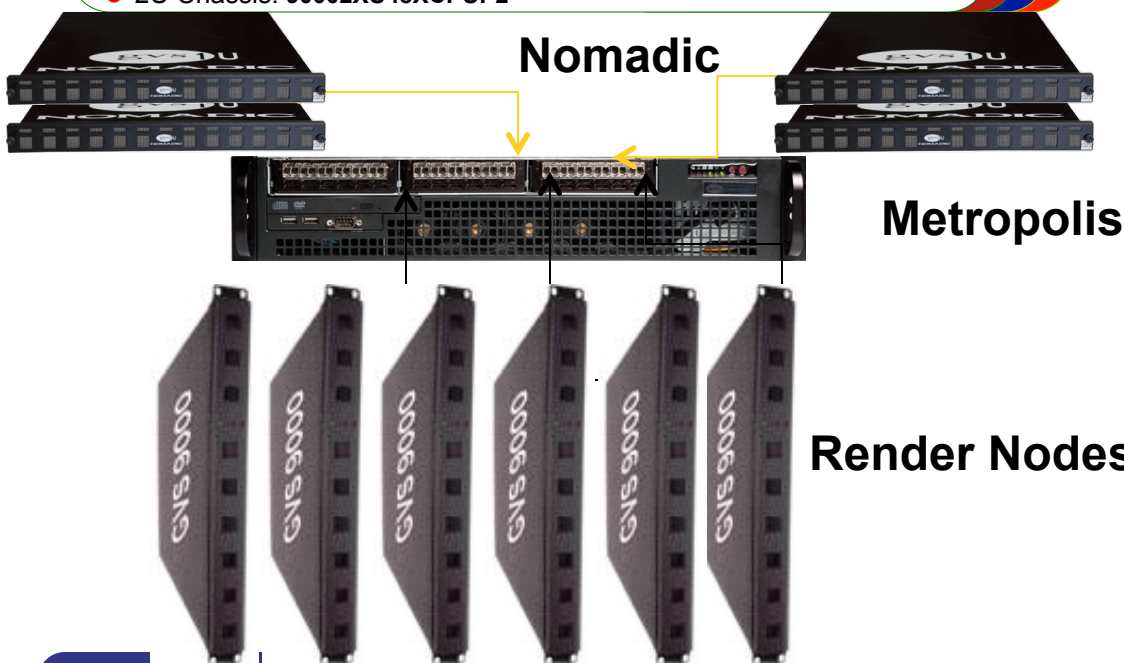




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9000 7XU 7042G-48C

- GVS9000: 2XU 48xCPU
- 2U Chassis: 90002XU48XCPUP2



Key Features

- 48 Cores High Performance 1PB NAS Hardware CTR
- 2-6x8GB Fibre SAN and 2-18x10GB Gigabit Interface Op.
- 8xSAS/Fibre RAID CTR with 8GB SAN Fibre Interface
- Server Storage and Network Management

1

Processor Support & Chipset

Dual 8-core Series

2

Memory Capacity

Up to 64512 GB R/UDDR3 ECC 1333 Mhz in 3 2 DIMMs

3

Expansion Slots

2 PCI-E 2.0 x16
1 PCI-E 2.0 x8 slot and 1 UIO or x8 slot

4

I/O ports

1 VGA, 1 COM, 2 Gbit LAN, 4 USB 2.0 ports.
1 dedicated LAN for system management (IPMI2.0)

5

Drive Bays

6x Hot-swappable SAS/SATA Hard Drive Bays

6

Power Supply

1400W High-efficiency Gold Level
Redundant power

7

System Cooling

6x 4-pin PWM Fans w/ Optimal Fan Speed Control

redhat



ubuntu

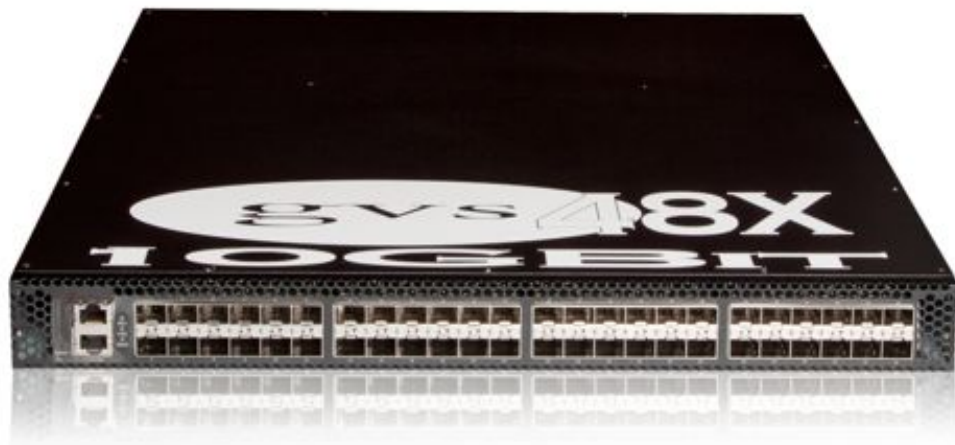




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GVS 48X 10GBIT Switch

- 10Gbit Switch: **24-48-Port**
- 1U Chassis: **48X10GBSFPP2**



Key Features

- 48 Cores High Performance 10GB SFP Switch
- Fibre NAS 10Gbit Gigabit Interface
- Exceptional performance, low latency
- High energy efficiency



1

Number Of 10Gbit Port

24-48xSFP 3 watts per 10G port w SFP+optics

2

Layer Support

Layer2, Layer 3. Layer4 Traffic Classification
Per port bandwidth management

3

PERFORMANCE

960Gbps Forwarding 714Mpps
Packet Butter Size 4MB

4

I/O ports

Provides 8 queues per port/128
Groups per System

Support L2/L3/L4 access control list.

5

QOS Features

IEEE 802.1p (COS), TCP/UDS port number

6

Power Supply

750W High-efficiency Gold Level
Redundant power

7

System Cooling

4x 4-pin PWM Fans w/ Optimal Fan Speed
Control

gvs 48X
10GBIT