

DNCS V445 Platform

The Digital Network Control System (DNCS) V445 platform is a high-performance server platform that supports service availability while delivering a balance of application performance and cost efficiency.

The DNCS V445 platform also features hot-swappable disks, power supplies, and cooling fan trays. An easy-to-use front panel display provides general system status, alerts you to system problems and helps you determine the location of system faults, as well as provides you with front access to four disk drives.

The standard hardware configuration features two, 1.593 GHz UltraSPARCIII processors, 4 GB memory, and a total of four 73-GB disks.

The DNCS V445 platform requires system release (SR) 2.7/3.7/4.2 SP2 or later. In addition, the DNCS V445 platform requires the Digital Broadband Delivery System (DBDS) IP traffic to be routed separately from the Asynchronous Transfer Mode (ATM) traffic. This setup may require some existing sites to reconfigure their DBDS/DNCS network to route out-of-band IP traffic through 10/100Base-T Ethernet or gigabit Ethernet.

Figure 1. DNCS V445 Platform (image may vary from actual product and specification)

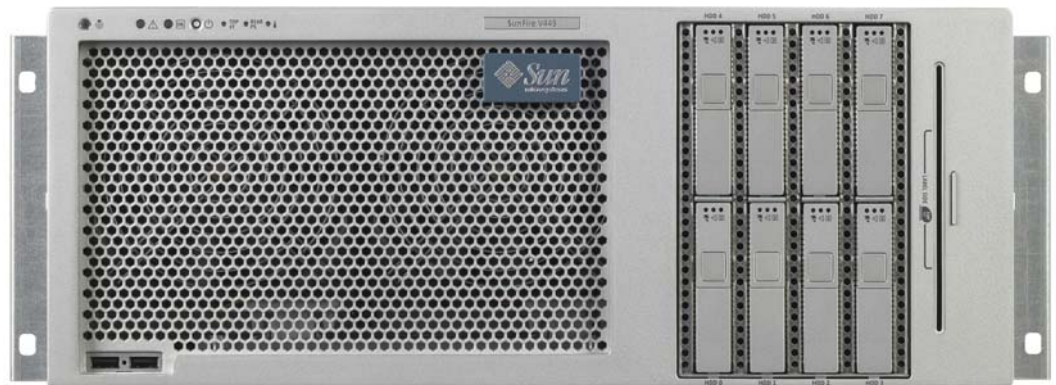


Figure 2. DNCS V445 Platform Front Panel (image may vary from actual product and specification)

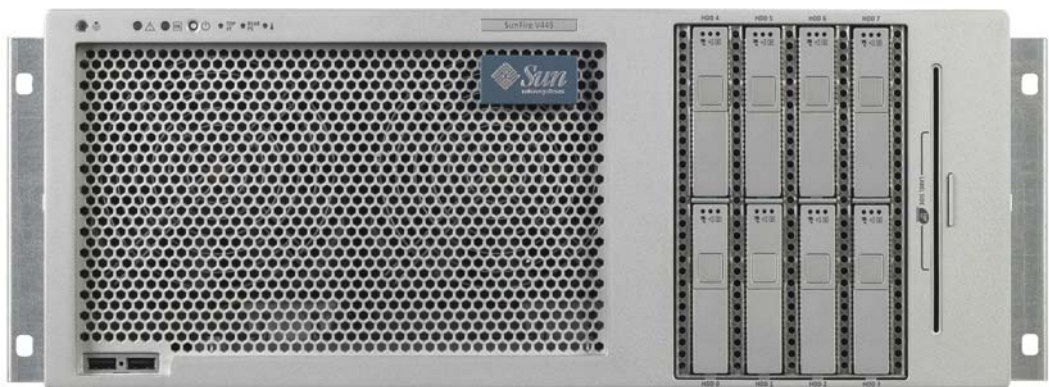


Table 1. Front Panel Features

Feature	Description
Connections	Two USB 2.0 ports
Controls	Power
Drives	Eight hot-pluggable internal SAS disk drives, one removable media drive
Indicators	Power/OK, Service Required, System Activity, Locator, Fan Tray Fault, Power Supply Fault, CPU over temperature

Figure 3. DNCS V445 Platform Back Panel (image may vary from actual product and specification)



Table 2. Back Panel Features

Feature	Description
Indicators	DC Power On, Service Required, AC Power Present, Link
PCI Slots	Four PCI-E slots, Four PCI-X slots
Connections-Interactive	Two USB 2.0 ports, four gigabit Ethernet ports, DB-9 serial port, network management port (NET MGT), serial management port (SER MGT)
Power Supplies	Four AC/DC redundant and hot-swappable power supplies

Product Specifications

Table 3. Product Specifications

Specification	Value
Memory/Storage	
Maximum Configuration	32 GB (four CPU/memory modules fully populated with 2 GB dual inline memory modules [DIMMs])
Minimum Configuration	4 GB (two CPU/memory modules with four 512 MB)
Capacities	• 4 DIMM slots per processor • Support for 512 MB, 1 GB, and 2 GB DIMMs • DDR1 PC2700 DIMMs
Processors	
Power	(4) 550 W hot-swappable power supplies with individual cooling fans
Cooling	(6) hot-swappable high-power fan trays (one fan per tray)
Processors	1.593 GHz UltraSPARCIIIi processors with 1 MB level 2 cache
Video Graphics	Sun XVR-300 Graphics Frame Buffer, 24-bit color, high resolution 2D graphics accelerator
Internal Storage	
Hard Drive	• Up to eight 73 GB or 146 GB, 10,000 RPM disk drives • 2.5 in. (5.1 cm) high, hot-pluggable Serial Attached SCSI (SAS) per disk drive • Hardware Redundant Array of Independent Disks (RAID) 0 and 1 • Front-accessible • Hot-pluggable
DVD-ROM	Combination CD/DVD-RW drive
Standard Interfaces	
Ethernet	Four RJ-45 on board 10/100/1000Base-T Gigabit/Fast Ethernet ports
PCI	(8) PCI slots • (4) PCI-X slots • (4) PCI-E slots
Remote Management	• One Serial Management RJ-45 port • One Network Management 10Base-T Ethernet RJ-45 port • Support for the following: ◦ Sun Management Center ◦ Sun Simple Network Management Protocol (SNMP) Management Agent ◦ Advanced Lights Out Management (ALOM) ◦ Sun Net Connect ◦ Sun Update Connection
Serial Ports	• One DB-9 connector • One RJ-45 connector (used for serial management)
USB	• Two front USB ports • Two rear USB ports
Electrical Specifications	
Maximum DC Power Output	550 W (per power supply)
Maximum AC Input	660 W (per power supply)
AC Power Consumption	327 to 557 W @ 100 to 240 VAC (typical operating range)
Heat Dissipation	• Typical Operating Range: 1065 to 2689 BTU/hr @ 100 to 240 VAC • Maximum Heat: 3157 BTU/hr @ 100 to 240 VAC

Dimensions and Weight	
Product (HxWxD) (4 rack unit system)	6.87 in. x 17.48 in. x 25.4 in. (17.45 cm x 44.5 cm x 64.4 cm)
Product Weight	• Maximum: 82 lb. (37.2 kg) • Minimum: 70 lb. (31 kg)
Operating Specifications	
Temperature	• Operating: 41 to 95°F (5 to 35°C) non-condensing • Non-operating: -40 to 95°F (-40 to 35°C)
Humidity (IEC 60068-2-3&56)	• Operating: 20% to 80% relative humidity, non-condensing; 80°F (27°C) max wet bulb • Non-operating: Up to 93% relative humidity, non-condensing; 100°F (38°C) max wet bulb
Altitude (IEC 60068-2-13)	• Operating: 0 to 10,000 ft (0 to 3000 m) • Non-operating: 0 to 40,000 ft (0 to 12,000 m)
Acoustics (ISO 9295/9296 [ISO 7779:1988])	• Operating: 75 dBA @ full speed • Non-operating: N/A
Vibration (IEC 60068-2-6&64)	• Operating: 0.0001 g²/Hz. 5 to 500 Hz, -12 db /octave slope 150 to 500 Hz • Non-operating: 0.001 g²/Hz. 5 to 500 Hz, -12 db /octave slope 150 to 500 Hz
Shock	• Operating: 3.0 g peak, 11 ms half-sine pulse • Non-operating: 15.0 g peak, 11 ms half-sine pulse, 1.0 in. roll-off front to back, 0.5 in. roll-off side-to-side
Handling Drops (IEC 60068-2-31)	60 mm (1 drop per corner on 4 corners)
Threshold Impact (ETE 1010-01)	0.85 m/s, 3 impacts per caster for all 4 casters, 25 mm step-up
Agency Compliance	
RoHS Compliance Level	RoHS YL
Safety	• UL 60950, CB Scheme IEC 950, CSA C22.2 950 from UL • TUV EN 60950 • UL CB scheme IEC 950 (CE mark)
RFI/EMI	• 47 CFR 15B Class A • EN55022 Class A • VCCI Class B • AS/NZ 3548 • CNS 13438 • KSC 5858 • ICES-003
Immunity	• IEC 1000 • EN55024 per EMC Directive 89/336/EEC, including: ◦ IEC 6100-4-2 Electrostatic discharge immunity test ◦ IEC 6100-4-3 Radiated, radio-frequency, electromagnetic field immunity test ◦ IEC 6100-4-4 Electrical fast transient/burst immunity test ◦ IEC 6100-4-5 Surge immunity test ◦ IEC 6100-4-6 Immunity to conducted disturbances, induced by radio frequency fields ◦ IEC 6100-4-8 Power frequency magnetic field immunity test ◦ IEC 6100-4-11 Voltage dips, short interruptions and voltage variations immunity tests

Ordering Information

Table 4. Ordering Information

Description	Available	Part Number
DNCS V445-2 Platform (with 2, 1.593 GHz UltraSPARCIIIi CPUs)	Now	4019012
V445-2 (without third-party software)*	Now	4022697

* SR 2.7/3.7/4.2 SP2 or later software must be ordered separately.



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Part Number 7007801 Rev A
June 2008