



3U 5500-Series Server

Product #OSS-MB-3U-SYS-5520



Server Options

The 3U NEBS-certified server has the following options:

- Power Supplies
 - Dual 500W AC or DC
- Drives
 - 1 internal fixed 2½" drive
 - 1 hot swappable 3½" drive
 - 4 hot swappable 2½" drive shuttles
- Processors
 - Wide range of Intel® 5500 or 5600 processors
- Customer's choice of paint color, silk-screening, and rack slides

Specifications

Intel® Server Board 5500 Series	<ul style="list-style-type: none"> • Dual Intel® Xeon® 2.0Ghz or 2.53Ghz processors • Dual Gigabit Ethernet connections • Integrated Graphics • 12 DDR3 DIMM sockets • SATA SW RAID level 0/1/10 with optional RAID 5 • 6 SATA ports
CPU	<ul style="list-style-type: none"> • L5640 2.26Ghz (Westmere) 6-core, 60W • L5680 3.33Ghz (Westmere) 6-core, 130W • E5506 2.13Ghz (Nehalem) quad-core, 60W • E5570 2.93Ghz (Nehalem) quad-core, 95W
Input/Output PCI	<ul style="list-style-type: none"> • 2 PCI Express 2.0 x16 slot (x16 mechanical) • 1 PCI Express 1.0 x4 slot (x8 mechanical) • 1 PCI Express 1.0 x1 slot (x4 mechanical) • 1 PCI 32/33 5V slot
Storage Capacity	<ul style="list-style-type: none"> • 1 internal fixed 2½" drive • Either 1 hot swappable 3½" drive or 4 hot swappable 2½" drive shuttles
Cooling Fans	Three 46.6CFM fans plus power supply fan providing front-to-rear airflow
Air Filter	<ul style="list-style-type: none"> • Removable air filter bracket with thumb screws • Air filter: One 30 ppi (pores per inch) air filter, open cell, polyfoam, UL 900 rating
Chassis	<ul style="list-style-type: none"> • USB connector on front panel • Dual DC input on rear with internal Or-ing board (DC version) • Cable hold-down support on rear of enclosure
Dimensions	17" wide x 4.5" high x 21" deep
Weight	<20kg
Overall MTBF	100,000 hours across all components
Construction	Clear zinc plated (20 and 18 gauge) cold rolled steel
Power Supplies	Dual 500W input power supplies
AC	Dual input on rear panel
-48VDC	Dual input on rear panel



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Specifications - continued

Outputs	+5 @ 30A, +12V @ 11A, -12V @ 1A, +3.3V @ 22A, -5V @ 1A
Operating Environment	<ul style="list-style-type: none"> • Temperature Range: 0° to 50°C (32° to 122°F) • Relative Humidity: 10 to 90% non-condensing • Shock: 30g acceleration peak (11ms pulse) • Vibration: 5-17 Hz 0.5" double amplitude displacement; 7-2000Hz, 1.5g acceleration
Agency	<p>Meets or exceeds the following requirements:</p> <ul style="list-style-type: none"> • NEBS-compliant, FCC Class A • Safety UL/CSA-60950-1, EN60950-1, IEC60950-1, CB Scheme with all country deviations, IEC825-1, 2, CFR21 part 1040, CNS1436, GB4943 • RFI/EMC EN55022 Class A, 47 CFR 15B Class A, ICES-003 Class A, VCCI Class A, AS/NZ 3548 Class A, CNS 13438 Class A, KSC 5858 Class A, GB9254 Class A, EN61000-4-6, GB17625.1, EN6100-3-3 • Immunity EN55024, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000 4-5, IEC 61000-4-6, IEC-61000-4-8, IEC 61000-4-11 • Regulatory markings CE, FCC, ICES-003, VCCI, UL/cUL • Certified to NEBS level 3

Power Supply Specifications

Active PFC (full range):	Meet IEC-1000-3-2 Class D
12V Max Current:	28A
Temperature Range:	Operating: 0° to 40° C
Humidity:	<ul style="list-style-type: none"> • Operating: 20%-95% • Non-operating: 10%-95%
Remarks:	85% is normal condition and 95% is with special coating process
EMI Noise Filter:	FCC Class B, CISPR22 Class B
Safety:	UL 1950, CSA 22.2 NO/950, TUV IEC 950
Power:	Remote On/Off control
Cooling:	Dual 40mm DC fans
Remote Sensing:	3.3V/5V
Serial ATA:	Optional

Power Supply Specifications: DC Output

Output Voltage	Output Current Min.	Output Current Max.	Regulation Load	Regulation Line	Output Ripple & Noise Max [P-P]
5V	3	25.00	+/-5%	+/-1%	80mV
12V	2	28	+/-6%	+/-1%	120mV
-12V	0	0.50	+/-10%	+/-1%	150mV
-5V	0	0.50	+/-10%	+/-1%	150mV
+5V	SB	0.1	+/-5%	+/-1%	80mV
3.3V	1	20	+/-5%	+/-1%	80mV

Ordering Information

OSS-MB-3U-SYS-5520-Nxx-xHD-AC

OSS-MB-3U-SYS-5520-Wxx-xHD-AC

3U 5520-based server with dual 500W AC power supplies, one 2½" internal fixed hard drive, one 3½" HD or four 2½" HDs, and choice of quad-core (N) or six-core (W) processors. (N = 2.0 or 2.4Ghz) (W = 2.0 or 2.53Ghz)

OSS-MB-3U-SYS-5520-Nxx-xHD-DC

OSS-MB-3U-SYS-5520-Wxx-xHD-DC

3U 5520-based server with dual 500W DC power supplies, one 2½" internal fixed hard drive, one 3½" HD or four 2½" HDs, and choice of quad-core (N) or six-core (W) processors. (N = 2.0 or 2.4Ghz) (W = 2.0 or 2.53Ghz)

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