



1U 5500/5600-Series Server

Product #OSS-MB-1U-SYS-5500/5600



Description

The 1U NEBS-compliant server is equipped with an Intel® 5500 series Server Board, two Intel® Xeon® 2.0Ghz or 2.53Ghz quad-core processors or 2.0Ghz or 2.4Ghz six-core processors, either a single 550W AC or DC power supply, or dual redundant 750W AC or DC power supplies, a fixed 2½" internal drive mounting, and either a single 3½" hot swappable drive shuttle or four 2½" hot swappable drive shuttles.

Features

- Supports single or dual 2.0Ghz or 2.53Ghz quad core Intel® (Nehalem) Xeon® processors or single or dual 2.0 or 2.4 Intel (Westmere) 6-core processors
- One internal 2½" drive
- Either a single mounting 3½" hot swappable drive shuttle or four 2½" hot swappable drive shuttles
- Either a single 550W AC or DC power supply or dual 750W redundant AC or DC power supplies

Specifications

Intel® Server Board 5500 Series	<ul style="list-style-type: none"> • Dual socket LGA1366 supports 5500 CPUs (Nehalem) and 5600 CPUs (Westmere) • Dual Gigabit Ethernet connections • Integrated Graphics • 12 DDR3 DIMM sockets • SATA RAID level 0/1/10 with optional RAID 5 • 6 SATA ports 	
CPU	<ul style="list-style-type: none"> • L5638 2.0Ghz (Westmere) 6-core, 60W • L5646 2.4Ghz (Westmere) 6-core, 80W • E5508 2.0Ghz (Nehalem) quadcore, 38W • E5540 2.53Ghz (Nehalem) quadcore, 80W 	
Input/Output PCI:	<ul style="list-style-type: none"> • 1 PCI Express x16 Gen 2 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 or 1 hotswappable 2½" shuttle 	
Dimensions:	17" wide x 1.75" high x 21" deep	
Cooling Fans:	Six 23CFM 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 • DC input terminals on each module • AC plug on each module • Cable hold-down support on rear of enclosure 	
Weight:	<20kg	
Overall MTBF:	100,000 hours across all components	
Construction:	Clear zinc plated (20 and 18 gauge) cold rolled steel	
Power Supply:	550W input power supply	Dual redundant 750W power supplies
AC:	Single input on rear panel	Dual inputs on rear panel
-48VDC:	Dual inputs on rear panel	Dual inputs on rear panel
Outputs:	+5V @ 30A, +12V @ 11A, -12V @ 1A, +3.3V @ 22A, -5V @ 1A	+5V @ 22A, +12V @ 62A, -12V @ 0.5A, +3.3V @ 22A, +5VSB @ 3.0A



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Specifications - continued

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 • Damp Heat (Humidity), DIN EN 60068-2-30, Method Db Variant 2 • Random Vibration, DIN EN 60068-2-64 dated 2007-12, Class B • Sine Vibration <ul style="list-style-type: none"> • Frequency range: 5 Hz to 55 Hz • Excursion: 0.15 mm, constant amplitude, (corresp. to 1.8 g at 55 Hz) • Frequency range: 55 Hz to 150 Hz • Acceleration: 0.5 g, constant • Test speed: approx. 1 octave per minute, logarithmic • Stress duration: 12 minutes on each of three perpendicular axes
Agency:	<p>Meets or exceeds the following requirements:</p> <ul style="list-style-type: none"> • Certified, 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

Single 550W AC or DC Power Supply Specifications: DC Outputs

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

Dual 750W AC or DC Power Supply Specifications: DC Outputs (per module)

Output Voltage	Output Current Min.	Output Current Max.	Regulation Load	Regulation Line	Output Ripple & Noise Max [P-P]
+5V	0	22.00	+5%	+50mV%	50mV
+12V	2	62	+5%	+50mV%	120mV
-12V	0	0.5	+5%	+50mV%	120mV
-3.3V	0	22	+5%	+50mV%	50mV
+5VSB	0.1	3	+5%	+50mV%	50mV

Ordering Information

- OSS-MB-1U-SYS-5520-xxx-xHD-550W-AC - 1U 5520-based server with 550W AC power supply, single 3½" HD or five 2½" HD's, and choice of quad-core (N) or six-core (W) processors. xxx = N2.0, N2.53, W2.0, W2.4
- OSS-MB-1U-SYS-5520-xxx-xHD-550W-DC - 1U 5520-based server with 550W DC power supply, single 3½" HD or five 2½" HD's, and choice of quad-core (N) or six-core (W) processors. xxx = N2.0, N2.53, W2.0, W2.4
- OSS-MB-1U-SYS-5520-xxx-1500W-AC - 1U 5520-based server with dual 750W AC power supplies, two 2½" HD's, choice of quad-core (N) or six-core (W) processors. xxx = N2.0, N2.53, W2.0, W2.4
- OSS-MB-1U-SYS-5520-xxx-1500W-DC - 1U 5520-based server with dual 750W DC power supplies, two 2½" HD's, choice of quad-core (N) or six-core (W) processors. xxx = N2.0, N2.53, W2.0, W2.4