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SuperServer 5016I-MRHF

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Integrated Board



Super X8SIL-F

Key Features

1. Intel® Xeon® X3400 / L3400 series processors
2. Up to 32GB DDR3 1333/1066/800MHz ECC Registered DIMM / 16GB Unbuffered DIMM
3. 1 (x8) PCI-Express 2.0
4. 2x Intel® 82574L Gigabit Ethernet Controllers
5. Integrated Graphics
6. 2x 3.5" Internal Drive Bays
7. 350W High-efficiency Power Supply **80 PLUS, Gold Level Certified**
8. Integrated IPMI 2.0 with KVM and Dedicated LAN

Available Colors: Black

▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Tested HDD](#)

Note: Image above may show a varied configuration or optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

SYS-5016I-MRHF ■ SuperServer 5016I-MRHF (Black)

Motherboard

Super X8SIL-F

Processor/Cache

CPU

- LGA 1156 Socket
- Intel® Xeon® X3400 series
- Intel® Xeon® L3400 series
- Intel® Core™ i3
- Intel® Pentium® G6950
- Intel® Celeron® G1101

System Memory

Memory Capacity

- 4x 240-pin DDR3 DIMM sockets
- Supports up to 32 GB DDR3 ECC Registered memory (RDIMM)
- Supports up to 16 GB DDR3 ECC Un-Buffered memory (UDIMM)
- 1333 / 1066 / 800 MHz
- Dual Core processors of Ci3 and Pentium: support ECC UDIMM only
- Note: Supports 1-Gb and 2-Gb x8 devices only - Intel 3420 / 3400 Chipset Memory Requirements

Memory Type

- 1333 / 1066 / 800 MHz ECC Registered / ECC Unbuffered DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs

DIMM Sizes

- 1GB, 2GB, 4GB, 8GB

Memory Voltage

- 1.5 V
- Corrects single-bit errors

Chassis

Form Factor ■ 1U Rackmount
Model ■ [CSE-512F-350B](#)

Dimensions

Height ■ 1.7" (43mm)
Width ■ 17.2" (437mm)
Depth ■ 14.5" (369mm)
Gross Weight ■ 17 lbs (7.7kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
 ■ System Reset button

LEDs ■ Power LED
 ■ Hard drive activity LED
 ■ 2x Network activity LEDs
 ■ System Overheat LED

Drive Bays

Internal Bay ■ 2x 3.5" internal drive bays
 SAS or enterprise SATA HDD only recommended

System Cooling

Fans ■ 2x 4cm 4-pin PWM Fans

Power Supply

350W AC power supply w/ PFC
AC Voltage ■ 100-240 V, 50-60 Hz, 4.2-1.8 Amp

Error Detection	<ul style="list-style-type: none"> ▪ Detects double-bit errors (using ECC memory)
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On-Board Devices

Chipset	<ul style="list-style-type: none"> ▪ Intel® 3420 chipset
SATA	<ul style="list-style-type: none"> ▪ 6x SATA (3 Gbps) ▪ RAID 0 support
IPMI	<ul style="list-style-type: none"> ▪ Support for Intelligent Platform Management Interface v.2.0 ▪ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ▪ Nuvoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> ▪ 2x Intel® 82574L Gigabit Ethernet Controllers ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1x Realtek RTL8201N PHY (dedicated IPMI)
VGA	<ul style="list-style-type: none"> ▪ Matrox G200eW 16MB DDR2
Super I/O	<ul style="list-style-type: none"> ▪ Winbond 83627DHG-P
Clock Generator	<ul style="list-style-type: none"> ▪ CK505

Expansion Slots

PCI-Express	<ul style="list-style-type: none"> ▪ 1 (x8) PCI-E 2.0 slot via riser card ▪ AOC Compatibility Matrix
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Input / Output

Serial ATA	<ul style="list-style-type: none"> ▪ 1x 3.5 " SATA hard drive supported
LAN	<ul style="list-style-type: none"> ▪ 2x RJ45 LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> ▪ 2x USB rear ports ▪ 1x USB on-board ▪ 2x USB internal header (4 ports) ▪ Total 7 USB 2.0 Compliant
VGA	<ul style="list-style-type: none"> ▪ 1x VGA port
Keyboard / Mouse	<ul style="list-style-type: none"> ▪ PS/2 keyboard and mouse ports
Serial Port / Header	<ul style="list-style-type: none"> ▪ 1x Fast UART 16550 serial port ▪ 1x internal header

System BIOS

BIOS Type	<ul style="list-style-type: none"> ▪ 32Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> ▪ DMI 2.3 ▪ PCI 2.2 ▪ ACPI 1.0 / 2.0 ▪ USB Keyboard support ▪ SMBIOS 2.3

+5V	<ul style="list-style-type: none"> ▪ 18 Amp
+5V standby	<ul style="list-style-type: none"> ▪ 3 Amp
+12V	<ul style="list-style-type: none"> ▪ 29 Amp
+3.3V	<ul style="list-style-type: none"> ▪ 15 Amp



Gold Certified
[[Test Report](#)]

Certification

PC Health Monitoring

CPU	<ul style="list-style-type: none"> ▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, +3.3V Standby, +5V Standby, VBAT, HT, Memory, Chipset Voltages. ▪ 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V
FAN	<ul style="list-style-type: none"> ▪ Total of 5 fan headers supporting up to 5 fans ▪ Five 4-pin fan headers ▪ 5x fans with tachometer status monitoring ▪ Status monitor for speed control ▪ Status monitor for on/off control ▪ Support 3-pin fans (w/o speed control) ▪ Low noise fan speed control ▪ Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> ▪ Monitoring for CPU and chassis environment ▪ CPU thermal trip support ▪ FC temperature sensing logic ▪ Thermal Monitor 2 (TM2) support ▪ PECI
LED	<ul style="list-style-type: none"> ▪ CPU / System Overheat LED ▪ +5V Standby alert LED
Other Features	<ul style="list-style-type: none"> ▪ Chassis intrusion detection ▪ Chassis intrusion header

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> ▪ RoHS Compliant 6/6, Pb Free
Environmental Spec.	<ul style="list-style-type: none"> ▪ Operating Temperature: 10°to 35°C (50°to 95°F) ▪ Non-operating Temperature: -40°to 70°C (-40°to 158°F) ▪ Operating Relative Humidity: 8% to 90% (non-condensing) ▪ Non-operating Relative Humidity: 5 to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X8SIL-F	1	Super X8SIL-F Motherboard
	CSE-512F-350B	1	1U Chassis
Cable 1	CBL-0061L	1	35CM end to end, SATA CABLE, PB FREE, 26AWG, flat
CD	CDR-X8-UP	1	DRIVER CD FOR X8 UP MOTHERBOARD
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8 (Rev 4.00)
Heatsink / Retention	SNK-P0046P	1	1U PASSIVE CPU HS FOR INTEL LGA1156

Optional Parts List

	Part Number	Qty	Description
Mounting Rails	CSE-PT8L	-	1U Chassis Mounting Rails and Kit
Cable 1	CBL-0061L	-	35CM end to end, SATA CABLE, PB FREE, 26AWG, flat
Peripheral Drive 1	DVM-PNSC-DVD-SBT1	-	BLACK PANASONIC SLIM DVD ROM SATA DRIVE
Peripheral Drive 2	DVM-TEAC-DVD-SBT3	-	BLACK TEAC SLIM DVD ROM SATA DRIVE ROHS,HF,RoHS/REACH,PBF

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