



**AYa cfm** Voltage ■ 1.5 V, 1.35 V

Error Detection	<ul style="list-style-type: none"> <li>■ Corrects single-bit errors</li> <li>■ Detects double-bit errors (using ECC memory)</li> </ul>
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**On-Board Devices**

Chipset	<ul style="list-style-type: none"> <li>■ Intel® C602 Chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>■ SATA 2.0 3Gbps with RAID 0, 1, 5, 10</li> <li>■ SATA 3.0 6Gbps with RAID 0, 1, 5, 10</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>■ Support for Intelligent Platform Management Interface v.2.0</li> <li>■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>■ Renesas SH7757 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>■ Intel® i350 Dual port GbE LAN</li> <li>■ Virtual Machine Device Queues reduce I/O overhead</li> <li>■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>■ 1x Realtek RTL8201N PHY (dedicated IPMI)</li> </ul>
VGA	<ul style="list-style-type: none"> <li>■ Matrox G200eW 16MB DDR2 graphics controllers</li> </ul>

**Input / Output**

SATA	<ul style="list-style-type: none"> <li>■ 2 SATA 3.0 ports (6Gbps)</li> <li>■ 4 SATA 2.0 ports (3Gbps)</li> </ul>
LAN	<ul style="list-style-type: none"> <li>■ 2x RJ45 LAN ports</li> <li>■ 1x RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>■ 8 USB 2.0 ports total (4 rear + 4 via headers)</li> </ul>
VGA	<ul style="list-style-type: none"> <li>■ 1x VGA port</li> </ul>
Serial Port / Header	<ul style="list-style-type: none"> <li>■ 1x Fast UART 16550 serial port</li> </ul>

**Drive Bays**

Hot-swap	<ul style="list-style-type: none"> <li>■ 4x 3.5" Hot-swap drive bays</li> </ul>
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**Backplane**

SAS/SATA HDD Backplane	<ul style="list-style-type: none"> <li>■ (SAS support requires optional SAS controller)</li> </ul>
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**System Cooling**

Fans	<ul style="list-style-type: none"> <li>■ 3x 4cm Counter-rotating PWM fans</li> </ul>
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**Power Supply with Power Distributor**

500W high-efficiency (94%+) redundant power supplies w/ PMBus and I<sup>2</sup>C

AC Input	<ul style="list-style-type: none"> <li>■ 100-240 V, 50-60 Hz, 6.2-2.6 Amp</li> </ul>
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DC Output	<ul style="list-style-type: none"> <li>■ 3 Amp @ +5V standby</li> <li>■ 42 Amp @ +12V</li> </ul>
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With Power Distributor	<ul style="list-style-type: none"> <li>■ +5V: 25 Amp</li> <li>■ +3.3V: 12 Amp</li> <li>■ -12V: 0.6 Amp</li> </ul>
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Certification	  Platinum Certified [ <a href="#">Test Report</a> ]
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**System BIOS**

BIOS Type	<ul style="list-style-type: none"> <li>■ 8MB SPI Flash EEPROM with AMI BIOS</li> </ul>
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BIOS Features	<ul style="list-style-type: none"> <li>■ DMI 2.3</li> <li>■ PCI 2.3</li> <li>■ ACPI 1.0 / 2.0</li> <li>■ USB Keyboard support</li> <li>■ SMBIOS 2.3</li> </ul>
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**Operating Environment / Compliance**

RoHS	<ul style="list-style-type: none"> <li>■ RoHS Compliant</li> </ul>
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Environmental Spec.	<ul style="list-style-type: none"> <li>■ Operating Temperature: 10°C to 35°C (50°F to 95°F)</li> <li>■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li> <li>■ Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>■ Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>
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**Parts List****Parts List - (Items Included)**

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9SRW-F	1	Super X9SRW-F Motherboard
	CSE-815TQ-R500WB	1	1U Chassis
Backplane	BPN-SAS-815TQ	1	BPN-SAS-815TQ-O-P
Cable 1	CBL-0157L-01	1	8 pin to 8 pin ribbon SGPIO cable with tube, 61.5cm, PBF
Cable 2	CBL-0189L	1	SATA SET OF 4-55/44/44/34CM ROUND S-S, PBF. 26AWG
Riser Card	RSC-R1UW-2E16	1	RSC-R1UW-2E16-O-P
Riser Card	RSC-R1UW-E8R	1	RSC-R1UW-E8R-O-P
Heatsink / Retention	SNK-P0047PS	1	1U Passive CPU Heat Sink for X9 Generation Motherboards w/ Narrow ILM
Power Supply	PWS-504P-1R	2	500W 1U Redundant PWS W/ 54.5MM Wide