

A+ Server 4022G-6F

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Integrated Board



H8DG6-F

Available Colors: Black

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Key Features

1. Dual AMD Opteron™ 6000 series processors (Socket G34)
16/12/8/4-Core ready; HT3.0 Link support
2. AMD SR5690 / SP5100 Chipset
3. Up to 512GB DDR3 1600MHz ECC Registered DIMM; 16x DIMM sockets
4. 3x PCI-e 2.0 x16 slots, 1x PCI.2.0 x8 slot, and 2x PCIe 2.0 x4 (in x8 slots)
5. Dual-port GbE LAN Controller, 8x USB 2.0 ports, 1x dedicated LAN for system management (IPMI 2.0)
6. 8x Hot-swap SAS/SATA Drive Bays, 2x 5.25" Peripheral Drive Bays, and 1x 5.25" Bay that fits 3.5" Devices
7. LSI 2008 SAS2 RAID 0, 1, 10, 5 (Optional)
8. 920W **Platinum Level (94%+)** High-efficiency Power Supply (Optional redundant power upgradeable)





[Product Review](#)

Specifications

Product SKUs	
AS-4022G-6F	■ A+ Server 4022G-6F (Black)
Motherboard	
Super H8DG6-F	
Processor/Chipset	
CPU	■ Dual 1944-pin Socket G34
	■ Supports up to two 16/12/8/4-Core ready AMD Opteron™ 6000 Series processors
	■ HT3.0 Link support
Chipset	■ AMD chipset SR5690 / SP5100
System Memory	
Memory Capacity	■ Sixteen DIMM sockets
	■ Support up to 512GB Registered ECC or 128GB Unbuffered ECC/non-ECC DDR3 1600/1333/1066 SDRAM in 16 DIMMs
	■ Quad channel memory bus
	■ For Dual CPUs: Recommended that memory be populated equally in adjacent memory banks
	■ See Detailed Memory Support Matrix
Memory Type	■ DDR3 1600/1333/1066 MHz Registered ECC Unbuffered ECC/non-ECC SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	■ 1GB, 2GB, 4GB, 8GB, 16GB, 32GB
Memory Voltage	■ 1.35V or 1.5V
Error Detection	■ Corrects single-bit errors
	■ Detects double-bit errors (using ECC memory)
On-Board Devices	
SAS/SATA RAID	■ AMD SP5100 (RAID 0, 1, 10)
	■ LSI 2008 SAS2 (RAID 0, 1, 10, 5)
	■ (Optional) AOC-SAS2-RAID5-KEY: RAID 5 Support
IPMI	■ Support for Intelligent Platform Management Interface v.2.0
	■ IPMI 2.0 with virtual media over LAN and KVM over LAN support

Chassis	
Form Factor	■ Tower / 4U Rackmountable
	■ Optional Rackmount kit: (CSE-PT26)
Model	■ SC745TQ-920B
Dimensions	
Height	■ 17.2" (437mm)
Width	■ 7.0" (178mm)
Depth	■ 25.5" (648mm)
Gross Weight	■ 58 lbs (26.3kg)
Available Colors	■ Black
Front Panel	
Buttons	■ Power On/Off Button
	■ System Reset Button
LEDs	■ Power status
	■ Hard drive activity
	■ 2x Network activity
	■ Overheat status
Ports	■ 2x USB
Drive Bays	
Hot-swap	8x 3.5" SAS / SATA Hot-swap drive bays SAS or enterprise SATA HDD only recommended
SAS / SATA Hard Drive Backplane	
SAS/SATA backplane w/ Enclosure Management	
System Cooling	
Fans	5x 80x38mm 4-pin PWM Fans
Power Supply with Power Distributor	
920W high-efficiency (94+% power supply with PMBus	
AC Input	■ 100-240 V, 50-60 Hz, 11-4.5 Amp
DC Output	■ 4 Amp @ +5V standby
	■ 75 Amp @ +12V
With Power Distributor	■ +5V: 30 Amp
	■ +3.3V: 24 Amp
	■ -12V: 0.6 Amp

Network Controllers	<ul style="list-style-type: none"> Winbond® WPCM450 BMC Intel® 82576 controller, Dual-Port Gigabit Ethernet 10/100/1000BASE-T support
VGA	<ul style="list-style-type: none"> Matrox G200eW 16MB DDR2
Super I/O	<ul style="list-style-type: none"> Winbond 83527 chip Winbond WPCM450 (BMC)
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 3/1/2 PCI-E 2.0 x16/x8/x4 (in x8)
Input / Output	
LAN	<ul style="list-style-type: none"> 2x RJ45 ports and 1x RJ45 Dedicated LAN supports IPMI
USB	<ul style="list-style-type: none"> 8x USB 2.0 ports
VGA	<ul style="list-style-type: none"> 1x VGA port
Keyboard / Mouse	<ul style="list-style-type: none"> PS/2 keyboard and mouse ports
System BIOS	
BIOS Type	<ul style="list-style-type: none"> 16Mb Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 DMI 2.3 PCI 2.2 ACPI 2.0 BIOS Rescue Hot Keys USB Keyboard Support Hardware BIOS Virus Protection SMBIOS 2.3

Certification	  Platinum Certified [Test Report]
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors CPU Core Voltages, +3.3V, +5V, ±12V, HyperTransport Link voltage, memory voltage, VBAT, Chipset voltage CPU switching voltage regulator
FAN	<ul style="list-style-type: none"> Total up to 8-fan status tachometer monitoring Status monitor for speed control Status monitor for on/off control Low noise fan speed control
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU Thermal Trip Support Thermal Control for 8x Fan Connectors °C Temperature Sensing Logic
LED	<ul style="list-style-type: none"> CPU / System Overheat LED Suspend-State Indicator LED +5V Standby Alert LED UID/Remote 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
Environmental Spec.	<ul style="list-style-type: none"> Operating Temperature: 10°C to 30°C (50°F to 86°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

[See Parts List](#)

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