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# A+ Server 4022G-6F

<u>A+ Products</u> ► <u>Systems</u> ► Tower ► [ **4022G-6F** ]





#### Available Colors:

Black

- <u> Drivers & Utilities</u> <u>►BIOS</u> <u>►IPMI</u> <u>►Tested MEM</u> <u>►Tested HDD</u>
- ► Manuals ► Quick-References ► OS Certification Matrix
- ► Compatible GPU List

## **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 PCIe 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	<ul> <li>Dual 1944-pin Socket G34</li> <li>Supports up to two 16/12/8/4-Core ready</li> <li>AMD Opteron™ 6000 Series</li> <li>processors</li> <li>HT3.0 Link support</li> </ul>			
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	<ul> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>			
On-Board Devices				
SAS/SATA RAID	<ul> <li>AMD SP5100 (RAID 0, 1, 10)</li> <li>LSI 2008 SAS2 (RAID 0, 1, 10, 5)</li> <li>(Optional) AOC-SAS2-RAID5-KEY: RAID 5 Support</li> </ul>			
IPMI	<ul> <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> </ul>			

Chassis			
Form Factor	<ul><li>Tower / 4U Rackmountable</li><li>Optional Rackmount kit: (CSE-PT26)</li></ul>		
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	<ul><li>Power On/Off Button</li><li>System Reset Button</li></ul>		
LEDs	<ul><li>Power status</li><li>Hard drive activity</li><li>2x Network activity</li><li>Overheat status</li></ul>		
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 back	xplane w/ Enclosure Management		
System Coolin	g		
Fans	5x 80x38mm 4-pin PWM Fans		
Power Supply with Power Distributor			
920W high-effic	iency (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		

	■ Winbond® WPCM450 BMC	1
Network Controllers	<ul> <li>Intel® 82576 controller, Dual-Port Gigabit Ethernet</li> <li>10/100/1000BASE-T support</li> </ul>	Certification
VGA	■ Matrox G200eW 16MB DDR2	PC Health Monitorin
Super I/O	■ Winbond 83527 chip ■ Winbond WPCM450 (BMC)	CPU ±
<b>Expansion Slo</b>	ts	
PCI-Express	3/1/2 PCI-E 2.0 x16/x8/x4 (in x8)	
Input / Output		FAN . S
LAN	2x RJ45 ports and 1x RJ45 Dedicated LAN supports IPMI	= S
USB	8x USB 2.0 ports	- N
VGA	■ 1x VGA port	_
Keyboard / Mouse	■ PS/2 keyboard and mouse ports	Temperature = (
System BIOS		
BIOS Type	■ 16Mb Flash EEPROM with AMI® BIOS	LED
	■ Plug and Play (PnP) ■ APM 1.2	
BIOS Features	■ DMI 2.3 ■ PCI 2.2	Other (
	ACPI 2.0	Operating Environm
	■ BIOS Rescue Hot Keys	RoHS -
	<ul> <li>USB Keyboard Support</li> <li>Hardware BIOS Virus Protection</li> </ul>	None
	■ SMBIOS 2.3	
		Fin-amountal
		Environmental Spec.

Certification	Platinum Certified [Test Report]		
PC Health Monitoring			
CPU	<ul> <li>Monitors CPU Core Voltages, +3.3V, +5V, ±12V, HyperTransport Link voltage, memory voltage, VBAT, Chipset voltage</li> <li>CPU switching voltage regulator</li> </ul>		
FAN	Total up to 8-fan status tachometer monitoring Status monitor for speed control Stauts monitor for on/off control Low noise fan speed control		
Temperature	<ul> <li>Monitoring for CPU and chassis environment</li> <li>CPU Thermal Trip Support</li> <li>Thermal Control for 8x Fan Connectors</li> <li>PC Temperature Sensing Logic</li> </ul>		
LED	<ul> <li>CPU / System Overheat LED</li> <li>Suspend-State Indicator LED</li> <li>+5V Standby Alert LED</li> <li>UID/Remote LED</li> </ul>		
Other Features	<ul><li>Chassis Intrusion Detection</li><li>Chassis Intrusion Header</li></ul>		
Operating Environment / Compliance			
RoHS	■ RoHS Compliant		
Environmental Spec.	■ 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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