

# A+ Server 1022G-NTF

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Available Colors: Black

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## Key Features

1. Dual AMD Opteron™ 6000 series (6300P\* ready) processors (Socket G34)  
16/12/8/4-Core ready; HT3.0 Link support
2. Up to 512GB DDR3 1600MHz ECC Registered DIMM; 16x DIMM sockets
3. 2x PCI-e Gen 2.0 x8 slots
4. Dual-port GbE LAN Controller, 4x USB 2.0 ports, 1x dedicated LAN for system management (IPMI 2.0)
5. 4x Hot-swap SATA Drive Bays
6. 560W High-efficiency Power Supply **80 PLUS, Gold Level Certified**




## Specifications

Product SKUs	
AS-1022G-NTF	A+ Server 1022G-NTF (Black)
Motherboard	
Super H8DGU-F	
Processor/Chipset	
CPU	<ul style="list-style-type: none"> <li>▪ Dual 1944-pin Socket G34</li> <li>▪ Supports up to two <b>16/12/8/4-Core ready AMD Opteron™ 6000 Series processors</b></li> <li>▪ HT3.0 Link support</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 3.2GHz Hyper-Transport (HT3) link</li> </ul>
Chipset	<ul style="list-style-type: none"> <li>▪ AMD chipset SR5670 / SP5100</li> </ul>
Note	<ul style="list-style-type: none"> <li>▪ Supports 6000 processors with Max ACP 80W (TDP 115W)</li> </ul>
System Memory	
Memory Capacity	<ul style="list-style-type: none"> <li>▪ 16 DIMM sockets</li> <li>▪ Support up to 512GB Registered ECC or 128GB Unbuffered ECC/non-ECC 1600/1333/1066 SDRAM in 16 DIMMs</li> <li>▪ Quad channel memory bus</li> <li>▪ For Dual or Quad CPUs: Recommended that memory be populated equally in adjacent memory banks</li> <li>▪ <a href="#">See Detailed Memory Support Matrix</a></li> </ul>
	Memory Type
DIMM Sizes	<ul style="list-style-type: none"> <li>▪ 1GB, 2GB, 4GB, 8GB, 16GB, 32GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>▪ 1.35V or 1.5V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>▪ Corrects single-bit errors</li> <li>▪ Detects double-bit errors (using ECC memory)</li> </ul>
On-Board Devices	

Chassis	
Form Factor	1U Rackmount
Model	<a href="#">SC815TQ-563UB</a>
Dimensions	
Height	1.7" (43mm)
Width	17.2" (437mm)
Depth	25.6" (650mm)
Gross Weight	36 lbs (16.4kg)
Available Colors	Black
Front Panel	
Buttons	<ul style="list-style-type: none"> <li>▪ Power On/Off button</li> <li>▪ System Reset button</li> </ul>
	LEDs
Ports	<ul style="list-style-type: none"> <li>▪ 2x USB &amp; DB9 COM port tray</li> </ul>
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> <li>▪ 4x 3.5" SATA Hot-swap drive trays</li> <li>▪ Enterprise SATA HDD only recommended</li> </ul>
Peripheral Drives	
DVD-ROM	<ul style="list-style-type: none"> <li>▪ Slim DVD-ROM drive</li> </ul>
SAS / SATA Backplane	
1x 1U SAS / SATA backplane	
System Cooling	
Fans	<ul style="list-style-type: none"> <li>▪ 4x 4cm Counter-rotating PWM fans</li> </ul>
Power Supply	
560W AC power supply w/ PFC (24-pin)	

<b>SATA</b>	<ul style="list-style-type: none"> <li>AMD SP5100 (RAID 0, 1, 10)</li> </ul>
<b>IPMI</b>	<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>Winbond® WPCM450 BMC</li> </ul>
<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Intel® 82576 controller, Dual-Port Gigabit Ethernet</li> <li>10/100/1000BASE-T support</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>Matrox G200 16MB DDR2</li> </ul>
<b>Super I/O</b>	<ul style="list-style-type: none"> <li>Winbond 83527 chip</li> </ul>
<b>Expansion Slots</b>	
<b>1U</b>	<ul style="list-style-type: none"> <li>2x PCI-e 2.0 x8 slots</li> </ul>
<b>Input / Output</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>4x SATA2.0 (3Gb/s) Ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 LAN ports</li> <li>1x RJ45 Dedicated LAN supports IPMI</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>7x USB 2.0 ports</li> <li>2x Rear, 4x header, 1x Type A</li> </ul>
<b>VGA</b>	<ul style="list-style-type: none"> <li>1x VGA port</li> </ul>
<b>Keyboard / Mouse</b>	<ul style="list-style-type: none"> <li>PS/2 keyboard and mouse ports</li> </ul>
<b>Serial Ports</b>	<ul style="list-style-type: none"> <li>1 Fast UART 16550 serial port</li> <li>1 serial port header</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>1 UID</li> </ul>
<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>16Mb Flash EEPROM with AMI® BIOS</li> </ul>
<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>Plug and Play (PnP)</li> <li>APM 1.2</li> <li>DMI 2.3</li> <li>PCI 2.2</li> <li>ACPI 2.0</li> <li>BIOS Rescue Hot Keys</li> <li>USB Keyboard Support</li> <li>Hardware BIOS Virus Protection</li> <li>SMBIOS 2.3</li> </ul>

<b>AC Voltage</b>	<ul style="list-style-type: none"> <li>100-240 V, 50-60 Hz, 7.5 Amp max</li> </ul>
<b>+5V</b>	<ul style="list-style-type: none"> <li>18 Amp</li> </ul>
<b>+5V standby</b>	<ul style="list-style-type: none"> <li>3 Amp</li> </ul>
<b>+12V</b>	<ul style="list-style-type: none"> <li>46 Amp @ 100-180V;</li> <li>49 Amp @ 180-240V</li> </ul>
<b>-12V</b>	<ul style="list-style-type: none"> <li>0.5 Amp</li> </ul>
<b>+3.3V</b>	<ul style="list-style-type: none"> <li>15 Amp</li> </ul>
<b>Certification</b>	 <b>Gold Certified</b>
<b>PC Health Monitoring</b>	
<b>CPU</b>	<ul style="list-style-type: none"> <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>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Total up to 8-fan status tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Status monitor for on/off control</li> <li>Low noise fan speed control</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU Thermal Trip Support</li> <li>Thermal Control for 8x Fan Connectors</li> <li>I<sup>2</sup>C Temperature Sensing Logic</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>CPU / System Overheat LED</li> <li>Suspend-State Indicator LED</li> <li>+5V Standby Alert LED</li> <li>UID/Remote LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Chassis Intrusion Detection</li> <li>Chassis Intrusion Header</li> </ul>
<b>Operating Environment / Compliance</b>	
<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<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>

### Parts List

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