A+ Server 1040C-8 / 1040C-8B

A+ Products ▶ Systems ▶ 1U ▶ [**1040C-8 / 1040C-8B**]

Integrated Board

Super H8QC8+

Available Colors: Black ▪ Beige ▪

▶ **Drivers & Utilities** ▶ **BIOS** ▶ **Manuals** ▶ **Tested Memory List**

Key Features

1. Quad AMD® Opteron™ Support, (Dual Core Ready) 1000 MHz HyperTransport Link

2. Up to 32GB DDR400 SDRAM (or) Up to 64GB DDR333 SDRAM (or) Up to 64GB DDR266 SDRAM

3. 1x PCI-Express x8 OR 1x HyperTransport Slot

4. Dual Gigabit (Intel 82546GB) Ethernet Controller

5. 3x 3.5" Ultra320 SCSI Hot-swap Drive Bays

6. ATI Rage XL 8MB Graphics

7. 1000W Power Supply

Specifications

Product SKUs	
AS-1040C-8	A+ Server 1040C-8 (**Beige**)
AS-1040C-8B	A+ Server 1040C-8B (**Black**)

Motherboard	
Super H8QC8+	

Processor/Chipset	
CPU	▪ Quad 940-pin ZIF Sockets ▪ Supports four **Dual-Core AMD Opteron™** 800 Series processor(s) ▪ HyperTransport Link (1000MHz) ▪ VRM x4
Chipset	▪ nVidia nForce Pro 2200 (CK804) ▪ AMD 8132 PCI-X Tunnel

System Memory	
Memory Capacity	▪ Four 184-pin DIMM sockets per processor memory bank ▪ Four memory banks for 4 processors (Quad). ▪ Supports up to 32 GB DDR 400 MHz memory or ▪ Supports up to 64 GB DDR 333/266 MHz memory ▪ Supports up to 64 GB registered ECC DDR for 4-way option ▪ Single or Dual (recommended) channel memory support ▪ Recommended that memory be populated equally in adjacent memory banks
Memory Type	▪ DDR 400/333/266MHz buffered (registered) ECC SDRAM 72-bit, 184-pin gold-plated DIMMs
DIMM Sizes	▪ 256 MB, 512 MB, 1GB, 2GB, 4GB**
Memory Voltage	▪ 2.5 V only
Error Detection	▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory)

On-Board Devices	
SCSI	▪ Dual Ultra320 SCSI drives ▪ Adaptec AIC-7902 Controller ▪ HostRAID 0, 1, 10
Network Controllers	▪ Dual Intel 82546GB Ethernet Controllers ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
IPMI	▪ Support for Intelligent Platform Management Interface v.2.0 ▪ (**Optional: AOC-IPMI20-E**) Card not included
SIMSO	▪ Supermicro Intelligent Management SO-DIMM v.2.0 Support ▪ (SIMSO Card not included)
Graphics	▪ ATI Rage XL 8MB

Chassis	
Form Factor	▪ 1U Rackmount
Model	▪ SC818S+-1000

Dimensions	
Height	▪ 1.7" (43mm)
Width	▪ 17.2" (437mm)
Depth	▪ 27.75 (705mm)
Available Colors	▪ Beige, 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
Ports	▪ none

Drive Bays	
Hot-swap	▪ 3 x 3.5" Hot-swap Ultra320 SCSI drive bays

Peripheral Drives	
DVD-ROM	▪ Slim 8x DVD-ROM Drive

SCSI Backplane	
3-port SCSI Backplane with SAF-TE	

System Cooling	
Fans	▪ 6x Counter-rotating 3-pin Fans

Power Supply	
1000W AC-DC high-efficiency power supply w/ PFC + PDB	
AC Voltage	▪ 100 - 240V, 50 - 60Hz, 15 - 7Amp
+5V standby	▪ 4 Amp
+12V	▪ 83 Amp
With Power Distributor	▪ +5V: 20 Amp ▪ +3.3V: 20 Amp ▪ -12V: 0.6 Amp

PC Health Monitoring	
CPU	▪ Monitors CPU Core Voltages +5V, ±12V & VBAT ▪ Up to 9 fan status ▪ Supports System Management Utility
FAN	▪ Total up to nine 3-pin fan headers ▪ 9 Tachometer Monitoring ▪ Status Monitor for Speed Control ▪ Low Noise Fan Speed Control
Temperature	▪ Monitoring for CPU and chassis environment ▪ CPU Thermal Trip Support ▪ Thermal Control for 9 Fan Connectors ▪ I^2C Temperature Sensing Logic
LED	▪ CPU / System Overheat LED ▪ Suspend-State Indicator LED

Super I/O	▪ Winbond 83627HF-AW		
Clock Generator	▪ CK804		

Expansion Slots			
PCI-Express	▪ 1 PCI-e x8 slot		
HyperTransport	▪ 1 extra I/O as a Pathscale communication device (with optional riser card **RSC-RR1U-EHT**)		

Input / Output			
IDE	▪ Dual ATA 133/100 EIDE channels support up to four UDMA IDE devices ▪ Supports UDMA Mode 5 ▪ Supports PIO Mode 4 ▪ Supports ATA 100/133		
Floppy	▪ 1 Floppy port; 1.44 MB, 2.88 MB support		
LAN	▪ 2 RJ45 LAN ports		
USB	▪ FUCI ▪ Up to B Ports 2.0 Compliant, 1.1 Compatible ▪ 2 rear ports ▪ 1 internal header for 2 ports		
VGA	▪ 1 VGA port		
Keyboard / Mouse	▪ PS/2 keyboard and mouse ports		
Serial Ports	▪ 1 Fast UART 16550 serial port ▪ 1 Header		
Parallel Ports	▪ 1 ECP/EPP parallel port		

	▪ Fan Fail LED
Other Features	▪ Chassis Intrusion Header ▪ Chassis Intrusion Detection

System BIOS	
BIOS Type	▪ 8Mb Flash EEPROM with AMI® BIOS ▪ SST49LF080A
BIOS Features	▪ Plug and Play (PnP) ▪ PCI 2.2 ▪ DMI 2.3 ▪ ACPI 2.0 ▪ BIOS Rescue Hot Keys ▪ USB Keyboard Support ▪ SMBIOS 2.3

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-H8QC8+	1	Super H8QC8+ Motherboard
	CSE-818S-1000(B)	1	1U SC818S-1000 Chassis (B = Black)
Cable(s)	CBL-0063L	1	20" U320 SCSI Cable
	CBL-0078	1	45cm Round Floppy Cable
	CBL-0139L	1	50cm IDE DVDROM Cable
	CBL-0154L	1	Power Cord
	CBL-0210L	1	5cm Floppy Power Adapter Cable
Fan(s)	FAN-0086	6	Counter-rotating 3-pin Fan
	FAN-0089	2	2-pin Blower For Air Shroud, CSE-PT0115
	CSE-PT0125	1	Fan Holder
Hard Drives	CSE-PT39(B)	3	1" SCA Hard Drive Trays
	CSE-SCA-818S	1	SCA818 1U SCSI Backplane
Heatsink Components	BKT-0004	4	Mounting Plate for Heatsink
	BKT-0005	4	Retention for Heatsink
Mounting Rails	CSE-PT51	1	1U Mounting Rail Kit
Peripheral Drives	DVM-PNSC-824(B)	1	Slim 8x DVD / 24x CD-ROM Combo Drive (B = Black)
Power Backplane	CSE-PT818-PD284	1	1U Power Distributor Backplane
Power Supply	PWS-1K01-1R	1	1000W 1U Power Supply
Riser Card	CSE-RR1U-E8	1	1U PCI-E Riser Card - Full-height/length (installed)
Air Shroud / Cover	CSE-PT0115	1	Chipset Air Shroud
	CSE-PT0126	1	Power Distributor Cover
	CSE-PT0128	1	CPU Air Shroud

Optional Parts List

	Part Number	Qty	Description
Peripheral Drives	FPD-TEAC-S (B)	1	TEAC 3.5" 1.44MB Slim Floppy Drive (B = Black)
Heat Sink	SNK-P0012	4	CPU Heatsink
Riser Card	RSC-RR1U-EHT	1	1U HyperTransport Riser Card

**4GB memory modules not fully tested due to limited availability