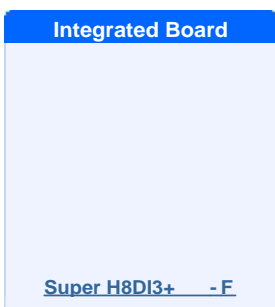


A+ Server 2021A-32R+F

A+ Products | Systems | Tower | [2021A-32R+F]



Available Colors: Black

[Drivers & Utilities](#) | [BIOS](#) | [Manuals](#)
[Tested Memory List](#) | [Tested HDD List](#)

Key Features

- Two Six-Core AMD Opteron™ 2000 Series (Socket F) processor support; HT3.0 Link support
- AMD SR5690/SP5100 Chipset PCIe Gen2
- 8x 3.5" Hot-swap SAS / SATA Drive Trays + 2x Fixed HDD Drive Bays
- Up to 128GB Reg. ECC DDR2 800/667/533 SDRAM in 16 DIMM
- 3x PCIe 2.0 x8 (Two in x16) slots, 1x PCIe 2.0 x4 (in x8) slot, 2x PCI-X 133/100
- 8 Port LSI 1068E SAS Controller
- Integrated IPMI 2.0 with KVM and Dedicated LAN
- 720W Redundant High-efficiency **80 PLUS Gold Level Power Supply**

Specifications

Product SKUs	
AS-2021A-32R+F	A+ Server 2021A-32R+F (Black)
Motherboard	
Super H8DI3+ -F	
Processor/Chipset	
CPU	<ul style="list-style-type: none"> Dual 1207-pin Socket F Supports up to two Six-Core / Quad-Core AMD Opteron™ 2000 Series processors** HT3.0 Link support
Chipset	AMD chipset SR5690/SP5100
System Memory	
Memory Capacity	<ul style="list-style-type: none"> Sixteen 240-pin DIMM sockets Support up to 128GB DDR2 800/667/533 MHz memory Dual channel memory bus Single or Dual (recommended) channel memory support For Dual CPUs: Recommended that memory be populated equally in adjacent memory banks
Memory Type	DDR2 800/667/533 MHz Registered ECC SDRAM 72bit, 240-pin gold-plated DIMMs
DIMM Sizes	256 MB, 512 MB, 1GB, 2GB, 4GB, 8GB
Memory Voltage	1.8V only
On-Board Devices	
SATA	AMD SP5100 (RAID 0, 1, 10)
SAS	<ul style="list-style-type: none"> LSI 1068E 8 port SAS controller RAID 0, 1, 10; RAID 5 Optional IButton68 (Optional:AOC-IButton68) RAID 5 support
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Winbond® WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> Two Intel® 82574L controller, DualPort Gigabit Ethernet 10/100/1000BASET support
VGA	Matrox G200 16MB DDR2 16MB Graphics & VGA port
Super I/O	AMD SP5100 chip
Input / Output	
SATA	6x SATA2.0 (3Gb/s) Ports
SAS	<ul style="list-style-type: none"> Integrated LSI 1068E SAS Controller Eight Serial Attached SCSI (SAS) ports
IDE	<ul style="list-style-type: none"> Single EIDE channel support up to two UDMA IDE devices Supports UDMA Mode 5 Supports PIO Mode 4 Supports ATA 100/133
LAN	2 RJ45 LAN ports
Floppy	1 Floppy port, 1.44 MB
USB	<ul style="list-style-type: none"> 6x USB 2.0 ports 2x Rear / 2x header / 2x type A
VGA	1x VGA port
Keyboard / Mouse	PS/2 keyboard and mouse ports
Serial Ports	<ul style="list-style-type: none"> 1x Fast UART 16550 serial port 1x serial port header
System BIOS	
BIOS Type	16Mb SPI Flash ROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) DMI 2.3 PCI 2.2 ACPI 2.0 USB Keyboard Support SMBIOS 2.3

Chassis	
Form Factor	2U Rackmount
Model	SC825TQ-R720LPB
Dimensions	
Height	3.5" (89mm)
Width	17.2" (437mm)
Depth	25.5" (648mm)
Gross Weight	56 lbs (23.6 kg)
Available Colors	Black
Front Panel	
Buttons	<ul style="list-style-type: none"> Power On/Off button System Reset button
LEDs	<ul style="list-style-type: none"> Power LED Hard drive activity LED 2x Network activity LEDs System Overheat LED Power fail LED
Ports	2x USB Ports + DB9 COM Port (optional)
Drive Bays	
Hot-swap	8x 3.5" SAS / SATA Hot-swap drive trays
Peripheral Drives	
DVD-ROM	Slim DVD/CBROM Drive (Optional)
Floppy	Slim 1.44MB Floppy Drive (Optional)
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 3x PCIe 2.0 x8 (two in x16) slots 1x PCIe 2.0 x4 (in x8) slot
PCI-X	2x PCI-X 64-bit 133/100MHz slots
SAS Backplane	
1x 2U SAS backplane w/ Enclosure Management	
System Cooling	
Fans	3x 80x38mm 4-pin PWM Fans
Power Supply with Power Distributor	
720W (1+1) Redundant high-efficiency power supply with PMBus	
AC Input	100-240 V, 50-60 Hz, 4-9 Amp
DC Output	<ul style="list-style-type: none"> 3 Amp @ +5V standby 59 Amp @ +12V
With Power Distributor	
+5V	45 Amp
+3.3V	24 Amp
-12V	0.6 Amp
Certification	80 PLUS Gold Certified [Test Report]
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors CPU Core Voltages, +3.3V, +5V, +12V, 5V Standby, VBAT CPU 4Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Total up to 8-fan status tachometer monitoring Status monitor for speed control 4-pin fan support Low noise fan speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment CPU Thermal Trip Support °C Temperature Sensing Logic
LED	<ul style="list-style-type: none"> CPU / System Overheat LED +5V Standby Alert LED
Other Features	<ul style="list-style-type: none"> Chassis Intrusion Detection Chassis Intrusion Header Chipkill Support

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBDH8DI3+F-O-P	1	Super H8DI3+F-O-P Motherboard
	CSE-825TQ-R720LP(B)	1	2U SC825TQR720LP Chassis (B = Black)
Air Shroud	MCP310-82510-0B	1	Air Shroud for SC825 (AMD DP and SNKP0023P+)
Backplane	BPNSAS-825TQ	1	SAS Backplane with Enclosure Management [Manual]
Cable(s)	CBL-0084	1	6" 16-Pin Front Control Split Cable
	CBL-0160L	2	US Power Cord 16AWG
	CBL-0176L-01	2	IPASS to 4 SATA Cable
Driver CD	CDRAPLUS2	1	Driver CD for MCP55 Chipset A+ Motherboard
Fan(s)	FAN-0094L	3	80X38mm 4pin PWM Fan w/ HUS
Hard Drive Tray	MCP220-00024-0B	8	3.5" Black Hard Drive Carriers Trays
Heatsink Components	SNK-P0023P+	2	2U+ Passive CPU Heatsink for AMD Socket F CPUs
Mounting Rails	MCP290-00053-0N	1	Mounting Rail Set for SC825
Power Supply	PWS-721P-1R	2	720W Power Supply (Redundant)
	PDBPT825-8824	1	Power Distributor

Optional Parts List			
	Part Number	Qty	Description
DVD-ROM (must get 3 parts listed)	DVM-PNSG824V	-	Slim 8x DVD, 24x CD, DVROM Drive
	CBL-0139L	-	50cm DVD-ROM Cable
	CSEPT92L	-	DVD accessory kit
Floppy Drive (must get 2 parts listed)	MCPTEAC-SB	-	FDD 1.44MB Floppy Drive
	MCP220-82503-0B	-	FDD accessory kit
Tray	MCP220-00007-01	-	Black USB/COM port tray

* Fully populated DDR2 667 or 800 will be downgraded to DDR2 533
 ** Opteron 237x, 238x, 239x, and 24xx supported
 ^ The 2021A LSI 1068E supported SR and IT mode but not IR mode.