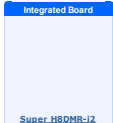


# A+ Server 1021M-T2RV / 1021M-T2RB

Products Systems [1U](#) (1021M-T2RV / 1021M-T2RB)



Available Colors: Black  Silver

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

- ### Key Features
1. Two Quad-Core / Dual-Core AMD Opteron™ 2000 Series (Socket F) Support, 1000 MHz HyperTransport Link
  2. Up to 64GB DDR2 800/667/533 SDRAM
  3. Left Universal Slot: 1 64-bit PCI-X 133MHz OR (x8) PCIe
  4. Right Universal Slot: 1 64-bit PCI-X 133MHz OR (x8) PCIe
  5. MCP55 Pro Chipset Dual-Port Gigabit LAN / Ethernet Controller
  6. 4 x 3.5" Hot-swap SATA Drive Bays
  7. 650W Redundant High-efficiency Power Supply

## Specifications

Product SKUs	
AS-1021M-T2RV	A+ Server 1021M-T2RV (Silver)
AS-1021M-T2RB	A+ Server 1021M-T2RB (Black)
Motherboard	
Super HBDMR-I2	
Processor/Chipset	
<ul style="list-style-type: none"> <li>Dual 1207-pin Socket F</li> <li>Supports up to two Quad-Core / Dual-Core AMD Opteron™ 2000 Series (Socket F) processor(s)</li> <li>Single CPU configurations are not recommended</li> </ul>	
CPU	
<ul style="list-style-type: none"> <li>1000MHz HyperTransport</li> </ul>	
System Bus	
<ul style="list-style-type: none"> <li>nVidia nForce MCP55 Pro</li> <li>NEC uPD72400</li> </ul>	
Chipset	
System Memory	
<ul style="list-style-type: none"> <li>8x 240-pin DIMM sockets support up to 64GB DDR2 800/667/533/400 MHz SDRAM</li> <li>Single or Dual (recommended) channel memory support</li> <li>For Single CPU, Memory must be populated in CPU1 DIMMs only</li> <li>For Dual CPUs, Recommended that memory be populated equally in adjacent memory banks</li> </ul>	
Memory Capacity	
<ul style="list-style-type: none"> <li>DDR2 800/667/533/400MHz Reg. ECC SDRAM 72-bit 240-pin gold-plated DIMMs</li> </ul>	
Memory Type	
<ul style="list-style-type: none"> <li>256 MB, 512 MB, 1GB, 2GB, 4GB, 8GB</li> <li>1.8V only</li> </ul>	
DIMM Sizes	
<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> <li>Detects double-bit errors (using ECC memory)</li> </ul>	
Memory Voltage	
Error Detection	
On-Board Devices	
SATA	
<ul style="list-style-type: none"> <li>nVidia MCP55 Pro SATA2 3.0Gbps Controller</li> <li>6 SATA Ports</li> <li>nVidia RAID 0, 1, 5, JBOD Support</li> <li>SATA RAID 0, 1, 0+1, 5, JBOD Support</li> </ul>	
IPMI	
<ul style="list-style-type: none"> <li>1U support: Intelligent Platform Management Interface v2.0</li> <li>Optional: <b>AOC-SMIU-3B(+)</b> &amp; <b>AOC-SMIU-3D</b></li> <li>For Dedicated 3rd DATA LAN, use both <b>AOC-SMIU-3B(+)</b> &amp; <b>AOC-SMIU-3D</b></li> <li>Remote Management Module (Add-on Cards not included)</li> </ul>	
Network Controllers	
<ul style="list-style-type: none"> <li>nVidia MCP55 Pro Chipset Dual-port LAN / Ethernet Controller</li> <li>Supports 10Base-T, 100Base-TX, and 1000Base-T, RJ45 output</li> </ul>	
Graphics	
<ul style="list-style-type: none"> <li>ATI ES1000 graphics controller</li> <li>Wired 8027HF</li> </ul>	
Super I/O	
Input / Output	
Serial ATA	
<ul style="list-style-type: none"> <li>Six SATA2 Ports</li> <li>Four SATA2 hard drives supported</li> <li>Single IDE channel support up to two UDMA IDE devices</li> <li>Supports UDMA Mode 5</li> <li>Supports PIO Mode 4</li> <li>Supports ATA 100/133</li> </ul>	
IDE	
Floppy	
<ul style="list-style-type: none"> <li>1 Floppy port, 1.44 MB</li> </ul>	
LAN	
<ul style="list-style-type: none"> <li>2 RJ45 LAN ports</li> <li>FUD</li> <li>Up to 4 USB Ports 2.0 Compliant, 1.1 Compatible</li> <li>2 Rear Ports</li> <li>2 Internal Headers</li> </ul>	
USB	
VGA	
<ul style="list-style-type: none"> <li>1 VGA port</li> </ul>	
Keyboard / Mouse	
<ul style="list-style-type: none"> <li>PS/2 keyboard and mouse ports</li> </ul>	
Serial Ports	
<ul style="list-style-type: none"> <li>1 Fast UART 16550 serial port</li> <li>1 header</li> </ul>	
System BIOS	
<ul style="list-style-type: none"> <li>8MB Flash EEPROM with AMIB BIOS</li> <li>SST49LF080A BIOS Chip</li> <li>Plug and Play (PnP)</li> <li>DMI 2.3</li> <li>PCI 2.2</li> <li>ACPI 2.0</li> <li>USB Keyboard Support</li> </ul>	
BIOS Features	
<ul style="list-style-type: none"> <li>Chassis</li> <li>Form Factor</li> <li>Model</li> </ul>	
Chassis	
<ul style="list-style-type: none"> <li>1U Rackmount</li> <li>SCR15TG-R650</li> </ul>	
Dimensions	
<ul style="list-style-type: none"> <li>Height: 1.7" (43mm)</li> <li>Width: 17.2" (437mm)</li> <li>Depth: 25.5" (650mm)</li> <li>Gross Weight: 44 lbs (19.9kg)</li> <li>Available Colors: Silver, Black</li> </ul>	
Front Panel	
Buttons	
<ul style="list-style-type: none"> <li>Power On/Off button</li> <li>System Reset button</li> <li>Power LED</li> <li>Hard drive activity LED</li> <li>2x Network activity LEDs</li> <li>System Overheat LED</li> </ul>	
LEDs	
Expansion Slots	
<ul style="list-style-type: none"> <li>Left Universal Slot: 1 PCI-express x8 Slot OR 1 64-bit 133MHz PCI-X slot</li> <li>Right Universal Slot: 1 PCI-express x8 Slot OR 1 64-bit 133MHz PCI-X slot</li> </ul>	
Drive Bays	
Hot-swap	
<ul style="list-style-type: none"> <li>4 x 3.5" Hot-swap SATA drive bays</li> </ul>	
SATA Backplane	
<ul style="list-style-type: none"> <li>1U SATA / SAS Backplane w/ AMI 9071 chip</li> </ul>	
Peripheral Drives	
DVD-ROM	
<ul style="list-style-type: none"> <li>Slim 8x DVD, 24x CD, DVD-ROM drive</li> </ul>	
System Cooling	
Fans	
<ul style="list-style-type: none"> <li>4x Cooling Fans</li> </ul>	
Power Supply	
<ul style="list-style-type: none"> <li>650W AC power supply w/ PFC</li> <li>AC Voltage: 100 - 240V, 60-50Hz, 8-4 Amp</li> <li>+5V: 25 Amp</li> <li>+5V standby: 3 Amp</li> <li>+12V: 54 Amp</li> <li>-12V: 0.5 Amp</li> <li>+3.3V: 12 Amp</li> </ul>	
PC Health Monitoring	
<ul style="list-style-type: none"> <li>Monitors CPU Core Voltages, +1.5V, +3.3V, 5V, +12V, 5V Standby, HyperTransport Link Voltage 1.2V, memory voltage 1.8V, VBAT, Chipset</li> <li>CPU 4-phase-switching voltage regulator</li> <li>Total up to 5-fan status tachometer monitoring</li> <li>Up to five 3-pin fan headers</li> <li>Status monitor for speed control</li> <li>Status monitor for on/off control</li> <li>Support 5-pin fans w/ fan-speed control</li> <li>Low noise fan speed control</li> <li>Overheat backup fan connector</li> <li>Monitoring for CPU and chassis environment</li> <li>CPU Thermal Trip Support</li> <li>PC Temperature Sensing Logic</li> <li>CPU / System Overheat LED</li> <li>Suspend-State Indicator LED</li> <li>+5V Standby Alert LED</li> <li>Chassis Intrusion Header</li> <li>Chassis Intrusion Detection</li> </ul>	
CPU	
FAN	
Temperature	
LED	
Other Features	
Operating Environment / Compliance	
<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: 5% to 95% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>	
Environmental Specifications	

## Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBO HBDMR-I2-0-P	1	Super HBDMR-I2 Motherboard
	CSE-151TG-R650(B)	1	1U Silver SCR15TG-R650 Chassis (B = Black)
Backplane	BPNSAS-815TG	1	1U SATA / SAS Backplane
	CSL-0044L	1	2PL SATA Cable
Cable(s)	CSL-0020L	1	12V 4-Pin to 4-Pin Power Connector Extension Cable
	CSL-0017	1	16-pin to 16-pin Round Cable
	CSL-0127L	1	8-pin to 8-pin Ribbon Cable for SGPIO
	CSL-0100L	1	Power Cord
	CSL-0128L	2	48cm SATA Cable
	CSL-0129L	1	70cm SATA Cable
CD	CDR-A+NVDA2	1	Driver CD
	FAN-0088L	4	3-pin Cooling Fan
Fan(s)	CSE-PT0135	1	Fan Holder for 6x Fans
	CSE-PT0100	2	Dummy Fan
Hard Drive Trays	MCP-220-00001-03/01	4	Silver Hot-swapable Hard Drive Trays (01 = Black)
Heatsink / Retention	SNK-P0224+	2	1U Passive Heatsink for AMD Socket F CPUs Please refer to our <a href="#">Thermal Components Matrix</a>
Mounting Rails	CSE-PT01L	1	1U Mounting Rail Kit
	DVU-MPSC-024(B)	1	Silver Panasonic 8x DVD, 24x CD, DVD-ROM Drive (B = Black)
Peripheral Drives	CSE-PT04L(V)-60	1	Silver Dummy Floppy Drive Cover (B0 = Black)
Power Supply	PWS-651-1R	2	650W High-efficiency Power Supply Module
	RDB-PT015-020	1	Power Distributor
Riser Card	CSE-RR10U-X	1	1U 1-Slot 64-bit 3.3V PCI-X - Left Side
	CSE-RR10U-XP	1	1U 1-Slot 64-bit 3.3V PCI-X (Low-profile) Right Side
	CSE-RR10U-EL	1	1U PCI-E to PCI-E Riser Card (x8) - Left Side
	CSE-RR10U-ELP	1	1U PCI-X to PCI-E Riser (Low-profile) - Right Side
Optional Parts List			
	Part Number	Qty	Description
IPMI	AOC-SMIU-3B(+)	-	PM 2.0 w/ Virtual Media Over LAN
	AOC-SMIU-3D	-	PM 2.0 w/ dedicated LAN & 3rd Data LAN ports
Peripheral Drives	FFD-OT2N-5V	-	Silver Slim Floppy Drive
	FFD-OT2N-SB	-	Black Slim Floppy Drive