

A+ SuperWorkstation 5014A-TT (Complete System Only)



Integrated Board



M12SWA-TF

Views: | [Angled View](#) | [Side View](#) |
| [Front View](#) | [Rear View](#) |

Complete System Only: To maintain quality and integrity, this product is sold only as a completely-assembled system (with minimum CPU, 2 DIMMs, and 1 HDS/HDD).

▶ [Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Tested M.2 List](#) ▶ [NVMe Options](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#) ▶
[Compatible GPU List](#) ▶ [Drive Options](#)

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.



Key Applications

- Media and Entertainment Content Creation
- Product Design and Engineering Simulation
- AI and Deep Learning

Key Features

1. AMD Ryzen™ Threadripper™ PRO 3000WX Series Processor, up to 64 Cores
2. 8 DIMMs; up to 2TB Registered ECC DDR4 3200-MHz Memory
3. 6 PCI-E 4.0 x16 slots
M.2 Interface: 4 PCI-E 4.0 x4, RAID 0, 1, 5 & 10
M.2 Form Factor: 2280, 22110
M.2 Key: M-Key
U.2 Interface: 2 U.2 sockets (Software RAID 0,1)
4. 1x 10GBase-T LAN port, 1x 1GbE LAN port (shared with IPMI)
5. 4 fixed internal 3.5"/2.5" SATA drive bays, 2 fixed front 2.5" SATA drive bays, 4 M.2
6. 1 VGA port (dedicated for IPMI)
7. 7.1 HD Audio
8. 2000W Platinum Level Power Supply

AMD
THREADRIPPER
PRO

Specifications

Product SKUs

SuperWorkstation ■ AS -5014A-TT (Black)

Motherboard

Super M12SWA-TF

Processor/Cache

CPU ■ Single AMD Ryzen™ Threadripper™ PRO 3000WX Series processor
 ■ Socket sWRX8/SP3
 ■ Supports CPU TDP up to 280W

Cores ■ Up to 64 Cores

System Memory

Memory Capacity ■ 8 DIMM slots
 ■ Supports up to 2TB Registered ECC DDR4 3200-MHz SDRAM
 ■ 8-channel memory bus

On-Board Devices

Chipset ■ AMD WRX80

SATA ■ SATA3 (6Gbps); RAID 0, 1, 5, 10

Network Controllers ■ 10G LAN: Single LAN via Marvel AQC113C 10G Ethernet Controller
 ■ 1GbE LAN: Single LAN with Intel® i210AT Ethernet Controller (shared with IPMI)

Audio ■ 7.1 channel HD Audio by Realtek LC4050H + ALC1220

Input / Output

SATA ■ 4 SATA3 (6Gbps) ports

LAN ■ 1 RJ45 10GBase-T Ethernet LAN port
 ■ 1 RJ45 GbE Ethernet LAN port (shared with IPMI)

USB ■ 1 USB 3.2 Gen2x2 port (Type C, 20Gbps)
 ■ 5 USB 3.2 Gen2 ports (4 Type A, 1 front Intel Type C header, 10Gbps)
 ■ 5 USB 3.2 Gen1 ports (3 Type A, 1 via header)
 ■ 2 USB 2.0 via header

Video ■ 1 VGA port (dedicated for IPMI)

Audio ■ 7.1 HD Audio with optical S/PDIF

Serial Port / Header ■ 1 COM port (rear)

TPM ■ 1 TPM 2.0 Header

System BIOS

BIOS Type ■ 256Mb SPI Flash with AMI BIOS

Management

Software ■ Intel® Node Manager
 ■ IPMI 2.0
 ■ SSM, SPM, SUM
 ■ SuperDoctor® 5
 ■ Watchdog

PC Health Monitoring

Chassis

Form Factor ■ Full Tower
 ■ Optional Rackmount Kit (6U)

Model ■ **CSE-GS7A-2000B**

Dimensions and Weight

Height ■ 21.06" (535mm)

Width ■ 8.74" (222mm)

Depth ■ 22.56" (573mm)

Front Panel

Buttons ■ Power On/Off button
 ■ LED On/Off button

LEDs ■ Power LED

Ports ■ 1 headphone jack
 ■ 1 audio jack
 ■ 1 USB 3.2 Port (Type C)
 ■ 2 USB 3.2 Ports (Type A)
 ■ 2 USB 2.0 Ports

Expansion Slots

PCI-Express ■ 6 PCI-E 4.0 x16 slots

M.2 ■ M.2 Interface: 4 PCI-E 4.0 x4
 ■ Form Factor: 2280, 22110
 ■ Key: M-Key

U.2 ■ Interface: 2 U.2 Sockets
 ■ Software RAID 0,1 support

Drive Bays

Fixed ■ 4 internal fixed 3.5"/2.5" SATA3 drive bays
 ■ 2 front fixed 2.5" SATA3 drive bays

Peripheral Bay(s) ■ 2x 5.25" drive bays

System Cooling

Water Cooling ■ Optional high-performance closed-loop water cooling for CPU

Fans ■ 1x 12cm rear exhaust fan
 ■ 2x 12cm front cooling fans
 ■ 3x 12cm top cooling fans (optional)

Power Supply

2000W PS/2 Multi-Output Power Supply

Total Output Power and Input ■ 1200W with Input 100 - 115Vac
 ■ 1500W with Input 115 - 200Vac
 ■ 2000W with Input 200 - 264Vac

AC Input Frequency ■ 50-60Hz

Dimensions (W x H x L) ■ 150 x 86 x 200 mm

+5V ■ Max: 25A / Min: 0.1A

+12V ■ Max: 100A / Min: 0.1A (100-115Vac)
 ■ Max: 125A / Min: 0.1A (115-120Vac)
 ■ Max: 166.6A / Min: 0.1A (200-264Vac)

+3.3V ■ Max: 25A / Min: 0A

5VSB ■ Max: 4A / Min: 0A

-12V ■ Max: 0.5A / Min: 0A

CPU	<ul style="list-style-type: none">■ Monitors for CPU Cores, Chipset Voltages, Memory.■ 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none">■ Fans with tachometer monitoring■ Status monitor for speed control■ Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none">■ Monitoring for CPU and chassis environment■ Thermal Control for fan connectors

Output Type	■ 24pin ATX
Certification	 Platinum Certified

Operating Environment

RoHS	■ RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none">■ Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)■ Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)■ Operating Relative Humidity: 8% to 90% (non-condensing)■ Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-M12SWA-TF	1	Super M12SWA-TF Motherboard
	CSE-GS7A-2000B	1	Full Tower/6U Rackmountable Chassis
Power Supply	PWS-2K01-PQ	1	PS2 2000W Multi-output PLATINUM power supply,RoHS
Fan	FAN-0221L4	3	12cm (2200rpm) cooling Fan (2x front intake and 1x rear exhaust)
Cable	CBL-0044L	4	57.5CM SATA FLAT S-S PBF
Software	SFT-OOB-LIC • eStore	1	OOB Management Package (per node license)

Optional Parts List

	Part Number	Qty	Description
Fan	FAN-0124L4	-	12cm (1850rpm) cooling Fan
Fan	FAN-0221L4	-	12cm (2200rpm) cooling Fan
Fan	FAN-0222L4	-	12cm (6400rpm) cooling Fan
CPU Heatsink	SNK-P0066AP4	-	High Performance 4.5U Active CPU Heat Sink for AMD Socket SP3 Platform
HDD Bracket	MCP-220-73102-0N	-	3.5" to 2.5" SSD/HDD Adapter Tray
Rail	MCP-290-GS706-0N	-	GS7 6U Rail Conversion Kit for rack mount (need to add MCP-290-00057-0N).
Rail	MCP-290-00057-0N	-	RAIL SET, QUICK/QUICK For 17.2"W
Liquid Cooling	SNK-P3028A4	-	High-Performance closed-loop liquid cooling with 360mm radiator (Need to add 3 12cm fans).
TPM security module	AOM-TPM-9665V	-	TPM 1.2 module with Infineon 9665, RoHS/REACH,PBF;
	AOM-TPM-9665V	-	TPM 2.0 module with Infineon 9665, RoHS/REACH,PBF;