

Server ASAP TD8754-T8



Key Features

1. 2U chassis supports for maximum motherboard sizes - 13.68" x 13", E-ATX 12" x 13", ATX 12" x 10" motherboards
2. 8 x 3.5" hot-swap SAS3/SATA drive bay, 2 x 3.5" fixed drive bay
3. 8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD
4. 1U 800W Redundant Power Supply 76mm width, W/PMbus, Titanium
5. 7 low-profile expansion slot(s)
6. 3 x 80mm Hot-swap PWM Fans

Key Features

1. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 140W TDP, 2 UPI up to 10.4 GT/s
2. Intel® C621
3. Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz, in 8 DIMM slots
4. 2 PCI-E 3.0 x16,
3 PCI-E 3.0 x8,
1 PCI-E 3.0 x4 (in x8 slot)
M.2 Interface: 1 SATA/PCI-E 3.0 x4
M.2 Form Factor: 2260, 2280
M.2 Key: M-Key
5. 1 VGA port
6. Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
7. Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512

Specifications ^

Systems Cooling

- 3 x 80mm Hot-swap PWM Fans

Form Factor

- 2U chassis supports for maximum motherboard sizes - 13.68" x 13", E-ATX 12" x 13", ATX 12" x 10" motherboards

Processor Support

- Dual and Single Intel® and AMD processors

Dimensions

- **Height** 3.5" (89 mm)
- **Width** 17.2" (437 mm)
- **Depth** 25.5" (647 mm)
- **Gross Weight** 52 lbs (23.59 kg)
- **Packaging (W x H x L)** 26.7" (678 mm) x 11.4" (290 mm) x 34.5" (876 mm)
- **Available Color** Black

Expansion Slots

- 7 low-profile expansion slot(s)

Drive Bays

- 8 x 3.5" hot-swap SAS3/SATA drive bay
- 2 x 3.5" fixed drive bay

System Monitoring

- Chassis intrusion switch

Operating Environment (System)

- **Operating Temperature Range** 5°C - 35°C (41°F - 95°F)
- **Non-Operating Temperature Range** -40°C - 70°C (-40°F - 158°F)
- **Operating Relative Humidity Range** 8% - 90% (non-condensing)
- **Non-Operating Relative Humidity Range** 5% - 95% (non-condensing)

Power Supply

1U 800W Redundant Power Supply 76mm width, W/PMbus, Titanium

- **Power Efficiency** 96%
- **Total Output Power and Input**
 - 800W with Input 100 - 240Vac
 - 800W with Input 200 - 240Vdc
- **AC Input Frequency** 50-60Hz
- **Dimensions (L x W x H)** 336 x 76 x 40 mm
- **Output Type** Backplanes (gold finger)

Backplane

- 8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD

Peripheral Drives

- Optional 1 x slim DVD-ROM drive bay
- Optional 2 x USB 2.0 ports
- Optional 1 x COM port tray
- Optional 2 x USB 3.0 ports

Front Panel

- | | |
|----------------|---|
| Buttons | <ul style="list-style-type: none"> Power On/Off button System Reset Button |
| LEDs | <ul style="list-style-type: none"> 2 Network Activity LEDs HDD activity LED Power Status LED Power Fail LED System Information LED |

- | | |
|-------------|--|
| +12V | <ul style="list-style-type: none"> Max: 66A (100Vac - 240Vac) Max: 66A (200 - 240) |
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|--------------|---|
| +5Vsb | <ul style="list-style-type: none"> Max: 4A / Min: 0A |
|--------------|---|

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|--------------------------|--|
| Power Distributor | <ul style="list-style-type: none"> PDB-PT825-8824 O/P: 12V/75 +5V Max: 30 +3.3V Max: 24 -12V Max: 0.6 |
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| Certification | <ul style="list-style-type: none">  Titanium Certified |
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Regulatory (Power Supply)

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| Power Supply Safety / EMC | <ul style="list-style-type: none"> BSMI CCC CE/EMC FCC class A TUV/CB UL/CUL |
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Physical Stats	
Form Factor	<ul style="list-style-type: none"> ATX
Dimensions	<ul style="list-style-type: none"> 12.076" x 10.15" (30.67cm x 25.78cm)
Processor/Cache	
CPU	<ul style="list-style-type: none"> 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 140W TDP, 2 UPI up to 10.4 GT/s
System Memory	
Memory Capacity	<ul style="list-style-type: none"> Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz, in 8 DIMM slots
Memory Type	<ul style="list-style-type: none"> 2933/2666/2400/2133MHz ECC DDR4 RDIMM, LRDIMM
DIMM Sizes	<ul style="list-style-type: none"> RDIMM: 64GB LRDIMM: 128GB 3DS LRDIMM: 128GB, 256GB
Memory Voltage	<ul style="list-style-type: none"> 1.2V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors

Expansion Slots	
PCI-E	<ul style="list-style-type: none"> 2 PCI-E 3.0 x16, 3 PCI-E 3.0 x8, 1 PCI-E 3.0 x4 (in x8 slot)
M.2	<ul style="list-style-type: none"> M.2 Interface: 1 SATA/PCI-E 3.0 x4 Form Factor: 2260, 2280 Key: M-Key
System BIOS	
BIOS Type	<ul style="list-style-type: none"> AMI UEFI
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management
PC Health Monitoring	
Voltage	<ul style="list-style-type: none"> +12V, +3.3V, +5V, +5V standby, 3.3V standby, 8 -fan status, Chassis intrusion header, Monitors CPU voltages, Supports system management utility
FAN	<ul style="list-style-type: none"> 8x 4-pin fan headers (up to 8 fans), Overheat LED indication, PWM fan speed control
Temperature	<ul style="list-style-type: none"> CPU thermal trip support, PECI
LED	<ul style="list-style-type: none"> CPU / System Overheat LED, UID/Remote UID

On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C621
SATA	<ul style="list-style-type: none"> Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	<ul style="list-style-type: none"> ASPEED AST2500
Network Controllers	<ul style="list-style-type: none"> Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512
Graphics	<ul style="list-style-type: none"> Aspeed AST2500 BMC
Input / Output	
SATA	<ul style="list-style-type: none"> 10 SATA3 (6Gbps) port
LAN	<ul style="list-style-type: none"> 2 RJ45 Gigabit Ethernet LAN ports
USB	<ul style="list-style-type: none"> 4 USB 2.0 ports (2 rear + 2 via headers) 3 USB 3.2 Gen1 ports (2 via headers + 1 Type A)
Video Output	<ul style="list-style-type: none"> 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1 COM Port (1 header)
TPM	<ul style="list-style-type: none"> 1 TPM Header

Other Features	<ul style="list-style-type: none"> ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, Node Manager Support, SDDC, UID
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Operating Environment	
Operating Temperature Range	<ul style="list-style-type: none"> 10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	<ul style="list-style-type: none"> -40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	<ul style="list-style-type: none"> 8% - 90% (non-condensing)
Non-Operating Relative Humidity Range	<ul style="list-style-type: none"> 5% - 95% (non-condensing)

Components ^

Standard Parts List

	Part Number	Qty	Description
Air Shroud	MCP-310-29001-0N	1	SC825/826/216/213 Intel DP X9,X8 air shroud 13.68x13/12x13
HD Backplane	BPN-SAS3-825TQ	1	8-port 2U SAS3 12Gbps TQ backplane, support up to 8x 3.5-inch SAS3/SATA3 HDD/SSD
Cable(S)	CBL-0071L	1	ROUND 16 TO 16 PIN RIBBON FP CABLE 30"L, LF
Cable(S)	CBL-0160L	2	US POWER CORD 16AWG, PB FREE
CD-ROM & Accessory	MCP-290-00007-01	1	Black DVD dummy cover for SC825, 836
Fan(s)	FAN-0181L4	3	80x80x38 mm, 9.4K RPM, Hot-swappable Middle Cooling Fan for X11 Purley Platform Newly Enabled 2U+ Chassis
Front Panel	FPB-FP836-D	1	Front control board Dual color LED(FP836-D)forSC823M,825,825M,828,829,835,836
Drive Tray(s)	MCP-220-00023-01	1	Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836
Drive Tray(s)	MCP-220-00075-0B	8	Black gen 5.5 hot-swap 3.5"; HDD tray
Drive Tray(s)	MCP-220-82502-0B	2	Black fixed 3.5" HDD tray or FDD dummy tray
Power Distributor	PDB-PT825-8824	1	SC825 24PIN REDUNDANT POWER DISTRIBUTOR
Power Supply & Accessory	PWS-802A-1R	2	1U 800W 100-240Vac/47-63Hz, and DC240 input
Mounting Rail(s)	MCP-290-00053-0N	1	Rail set, quick/quick, default for 2,3U 17.2";W
Rear Window	MCP-240-82506-0N	1	LP Rear Window for SC825,825M,826,213,216

Optional Parts List			
	Part Number	Qty	Description
Adaptor Bracket	MCP-120-82503-0N	-	Cable arm adapter for SC825LP,213LP (MCP-290-00073-0N required),HF,RoHS/REACH,PBF
Cable Management Arm	MCP-290-00073-0N	-	Supermicro Cable Management Arm for 2U, 3U and 4U chassis
Rail	MCP-290-00058-0N	-	Short rail set, quick release, 19.6"~26.9" Extendable Length
Front USB	MCP-220-00007-01	-	Black USB/COM port tray for SC825, 836
Front USB	MCP-220-00114-0N	-	Black 2x USB3.0/COM port tray in slim DVD bay,RoHS/REACH
Tray(s)	MCP-290-00036-0B	-	Black DVD dummy tray support 1x2.5 HDD for SC113,815,825,836
Tray(s)	MCP-220-00023-01	-	Black USB dummy tray support 1x 2.5" slim HDD for SC825, 836
Tray(s)	MCP-220-82503-0B	-	Black slim FDD kit for SC825/829,828,835
Cable	CBL-0157L	-	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
Cable	CBL-SAST-0699	-	internal mini SAS HD to 4 SATA 12G, 75/75/90/90cm w/75cm SB, S. 30AWG,RoHS/REACH
Cable	CBL-0082L	-	Y split , big 4 pin to two RA SATA power extension 15cm, 18AWG
Cable	CBL-0296L	-	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable	CBL-0180L-01	-	SET OF 4 SATA 70/59/48/38CM ROUND S-RA, 26AWG
LCD/OLED Solutions	MCP-220-00119-0B	-	2nd Gen Black 3.5" OLED tray, support 1x internal 2.5" HDD
SATA DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD mounting kit for SC213,219,813,815,818,819,825,828,829,836,842
HDD Tray Converter	MCP-220-00043-0N	-	Black hot-swap gen 4 3.5 to 2.5 HDD tray
DVD-ROM / DVD-RW	DVM-TEAC-DVD-SBT5	-	BLACK TEAC SLIM DVD SATA DRIVE,HF,RoHS
SATA DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD mounting kit for SC213,219,813,815,818,819,825,828,829,836,842
Peripheral Drive(s)	FPD-TEAC-SB	-	BLACK SLIM TEAC FLOPPY DRIVE FOR SC813
Front Bezel	MCP-210-82503-0B	-	Black SC825 front bezel

Parts List ^

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DPL-i	1	X11DPL-i Motherboard
I/O Cables	CBL-0044L	2	SATA CABLE 61CM FLAT S-S PBF
I/O Shield	MCP-260-00110-0N	1	Standard I/O Shield for X11DPL-i with EMI Gasket

Parts List (Retail Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X11DPL-i	1	X11DPL-i Motherboard
I/O Cables	CBL-0044L	6	SATA CABLE 61CM FLAT S-S PBF
I/O Shield	MCP-260-00110-0N	1	Standard I/O Shield for X11DPL-i with EMI Gasket

Optional Parts List			
Name	Part Number	Qty	Description
Heat Sink (optional, not included)	SNK-P0067PD	--	1U Passive Proprietary CPU Heat Sink for X11DPL Motherboard Equipped with a Square Retention Mechanism
Heat Sink (optional, not included)	SNK-P0068AP4	--	2U Active CPU Heat Sink Supporting Square Bolster Plate Mounting Mechanism for X11DPL in 2U and Above Systems
TPM security module (optional, not included)	AOM-TPM-9670V	--	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
1U I/O Shield	MCP-260-00111-0N	--	1U I/O Shield for X11DPL-i with EMI Gasket

Storage Options List

Cases	AOC	Cable	Connection
For 8 SAS3 HDD	AOC-S3008L-L8i x1 or AOC-S3108L-H8iR x1 or AOC-S3108L-H8iR-16DD x1	CBL-SAST-0532 x2	PCI-E slot 8
For 16 SAS3 HDD	AOC-S3008L-L8i x2 or AOC-S3108L-H8iR x2 or AOC-S3108L-H8iR-16DD x2	CBL-SAST-0532 x2 CBL-SAST-0593 x2	PCI-E slot 8 PCI-E slot 9
For 24 SAS3 HDD	AOC-S3008L-L8i x3 or AOC-S3108L-H8iR x3 or AOC-S3108L-H8iR-16DD x3	CBL-SAST-0532 x2 CBL-SAST-0593 x2 CBL-SAST-0568 x2	PCI-E slot 8 PCI-E slot 9 PCI-E slot 11
For 24 SAS3 HDD including 4 NVMe	AOC-S3008L-L8i x3 + AOC-SLG3-4E4T x1 or AOC-S3108L-H8iR x3 + AOC-SLG3-4E4T x1 or AOC-S3108L-H8iR-16DD x 3 + AOC-SLG3-4E4T x1	CBL-SAST-0532 x2 CBL-SAST-0593 x2 CBL-SAST-0568 x2 CBL-SAST-0926 x4 (NVMe cable)	PCI-E slot 8 PCI-E slot 9 PCI-E slot 11 PCI-E Slot 10 (AOC-SLG3-4E4T)
TPM security module (optional, not included)	AOM-TPM-9670V AOM-TPM-9671V	1	TPM module (Vertical) TPM 2.0 TPM module (Vertical) TPM 1.2.