

## Server ASAP SW7609-V2



### 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**

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

<b>+12V</b>	<ul style="list-style-type: none"> <li>▪ Max: 66A (100Vac - 240Vac)</li> <li>▪ Max: 66A (200 - 240)</li> </ul>
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<b>+5Vsb</b>	<ul style="list-style-type: none"> <li>▪ Max: 4A / Min: 0A</li> </ul>
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<b>Power Distributor</b>	<ul style="list-style-type: none"> <li>▪ PDB-PT825-8824</li> <li>▪ O/P: 12V/75</li> <li>▪ +5V Max: 30</li> <li>▪ +3.3V Max: 24</li> <li>▪ -12V Max: 0.6</li> </ul>
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<b>Certification</b>	<ul style="list-style-type: none"> <li>▪  Titanium Certified</li> </ul>
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**Regulatory (Power Supply)**

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

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

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

Other Features	<ul style="list-style-type: none"> <li>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</li> </ul>
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Operating Environment	
Operating Temperature Range	<ul style="list-style-type: none"> <li>10°C - 35°C (50°F - 95°F)</li> </ul>
Non-Operating Temperature Range	<ul style="list-style-type: none"> <li>-40°C - 70°C (-40°F - 158°F)</li> </ul>
Operating Relative Humidity Range	<ul style="list-style-type: none"> <li>8% - 90% (non-condensing)</li> </ul>
Non-Operating Relative Humidity Range	<ul style="list-style-type: none"> <li>5% - 95% (non-condensing)</li> </ul>

## Components ^

### Standard Parts List

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