SuperServer 5038MR-H8TRF

Integrated Board

Super X10SRD-F

Key Features (per node)

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3
2. 2x 3.5" Hot-swap SATA3/SAS drive bays; SAS requires RAID/HBA AOC
3. 1x PCI-E 3.0 x8 LP slot
4. Up to 256GB LRDIMM, 128GB RDIMM, up to 2133MHz DDR4 ECC; 4x DIMMs
5. 2x GbE LAN ports via Intel® i350
6. 1x Dedicated LAN for IPMI Remote Management
7. 4x 8cm Heavy duty fans with optimal cooling zone
8. 1620W High-efficiency Redundant Platinum Level power supplies

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

Specifications

Product SKUs

SuperServer	SYS-5038MR-H8TRF (**Black**)

Motherboard

Motherboard	MBD-X10SRD-F

Processor

CPU	**Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP **)** Single Socket R3 (LGA 2011)
Core / Cache	Up to 18 Cores / Up to 45MB Cache
Note	** Motherboard supports this maximum TDP. Please verify your system can thermally support

System Memory (per node)

Memory Capacity	4x 288-pin DDR4 DIMM slots Up to 256GB DDR4 ECC LRDIMM Up to 128GB DDR4 ECC RDIMM 4 DIMM slots
Memory Type	2133/1600/1333MHz ECC DDR4, 288-pin gold-plated DIMMs
DIMM Sizes	RDIMM: 32GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

Chassis

Form Factor	3U
Model	CSE-938BH-R1620B

Dimensions

Height	5.21" (132.5 mm)
Width	17.26" (438.4 mm)
Depth	23.2" (589 mm)
Package	11.65" (H) x 26.26" (W) x 34" (D)
Weight	Net Weight: 62.2 lbs (28.21 kg) Gross Weight: 88 lbs (39.92 kg)
Color	Black

Front Panel

Buttons	Power On/Off button
LEDs	Power LED Node status LED

Expansion Slots (per node)

PCI-Express	1 (x8) PCI-E 3.0 Low-profile slot MicroLP Adapter Matrix (Networking options)

Drive Bays (per node)

Hot-swap	2x 3.5" hot-swap SATA3 (6Gbps) HDDs per node; up to 16 HDDs total Enterprise SATA HDD only recommended

On-Board Devices (per node)

Chipset	Qc^|í ÁÔÎ FGÆ&@ā•^c
SATA	F¢ÅÙŒVŒÄÖUT ÙŒVŒÄHÆÁ̧Õà]•DÁ ã¤@ÄÙŒ̄Á̧ÆŒ̂Æ
IPMI	Ù̈]][¦¦Á̧[¦Á̧Qc^||ā̄^}cÁÙ|æ¤[¦{ Tæ}æ^{^}cÁQc^¦¬æ8^Á̧̂Œ̄Œ ŒÙTŒQ̈ÆÁ̧ ã¤@Á̧ãc̆æ̧Á̧^ǣǣÁ̧ç^¦Ã̄Œ̄ Œ̄æ}å SXTÁç^¦Ã̄Œ̄ Á̈]][¦c Œ̄]^^åÁŒ̄JVGI€€ÁÔTÔ
Headers	F¢ÁÙÙÓ@́ǣæ̂^¦Á̧B̄Á̧F̄ÁÙ̂]^ÁŒ̄ÄÙÓ́Ɓ́ÁÙ̄UT¦^æ̂^
Graphics	Œ̄]^^åÁŒ̄JVGI€€ÁÔTÔ

Network Devices (per node)

MicroLP NIC	Qc^|í Á̄H¶€ÁGc̄ÁŒ̄ã̄ǣǣã̄Ã̄ŒŒ̄ÁÁ̧[¦σ Ù̈]][¦σÁF̧€ÓŒ̄ÙŒ̄V̄ÁF̧€€ÓŒ̄ÙŒ̄V̄Á̧Ý̄Ȩ̈̄ǣå F̧€€ÓŒ̄ÙŒ̄V̄Á̧ŪRI ́Á̧ˇd̄c **Intel® I/OAT 3**Á̄ˇ]][¦¦Á̧[¦Á̧Áæ̧c̄Ê •&ǣ^ǣà|^Ê̄ǣā̄åÁ̧^¦ǣà|^Á̧^¦{[¦\ā̄* **VMDq**Á̄ˇ]][¦¦Á̧[¦Á̧̄Áˆ̄æ̧^ˆ¦Á̧^¦{[¦{ǣ}&^Á̧^¦~ çã̄cˇæ̧Á̧æǣ|}

Input / Output (per node)

Serial ATA	Gc̄ÁÙŒVŒÄH¶ÆÁ̧[¦σÁ̧̂Õà]•D
LAN	Gc̄ÁÙRI ́Á̄Ŏ̄ā̄ǣǣŎc̄@́¬|}^c̄ÁŚŒ̄Á̧[¦σ F¢ÁÙRI ́Á̄Ŏ̂̄åǣ̈æ̧^̄åÁŎ̄UT̄ŒŚŒ̄Á̧[¦c
KVM	F¢ÁÁ̧ȬŒ̄ÆÁ̧F¢ÁŎ̄UT̄Ê̄ǣ̧åÁ̧Gc̄ÁÙ̂Ù̄ÓÁ̧ŒÁc̄Êã̄@ SXTÁ̧[}*|^D́Á̧[¦σ

System BIOS

BIOS Type	FGÌ Tà̄ÁÙ̄ÚŎ̄Á̧æ̂@́Ŏ̄Ò̄ÚÙ̄UTÁ̧ ã̄c̄@́Œ̄TQ̄ ÓŎ̄JÙ
BIOS Features	Úˇ*Á̧ǣåÁ̧Ù|æ̂åÁ̧Ů̆}ÚD ŒŮ̄TÁ̧F̄G Œ̄Ô̄ÚÁ̧Œ̄ÄǢÁ̧ŒÄÆ WÙ̄Ó̄Ś̄^̄à[ǣåÁˇ̂]][¦c ÙTÓ̄Ó̄JÙ̄ÆÄH ÜVÔ̄Á̧Œ̄̄^æ̂Á̧V/ā̧ ^ÁÔ̄|[&\DÁ̧Ý̄ æ̂^ˇ]

Rear Window (each node)

Switch	Ú[¸^¦Á̧Œ̄W̄Ŏ̄

System Cooling

Fans	I¢Å̄&{ ÆFSÄÚÚT̄Á̧Ẽ̄Á̧Ë̄ā̧Á̧ÅÚY T̄Å&{[|ā̧*Á̧Áǣ}•

Power Supply

FÎ G€Y Á̧@ā̄@Ë̄¬ǣǣ}&̄Á̧^åˇ}åǣ}c̄Á̧[¸^¦Á̧ˇ]]|́Á̧ĐÚTÓ̄•

AC Input	F€€€Y Á̧Ù̆d̆^cÁ̧Ō ÆF€€ÆFG€XÆFḠĔÆF€€Œ̂ Í €Ÿ̄ÆÁ̧¥P: FG€€Y Á̧Ù̆d̆^cÁ̧Ō ÆFḠĔÆFI €XÆFḠĔÆF€€Œ̂ Í €Ÿ̄ÆÁ̧¥P: FÎ G€Y Á̧Ù̆d̆^cÁ̧Ō ÆFÌ €ĔÆGI €XÆFǞÆH̄Ĕ̄Œ̂ Í €Ÿ̄ÆÁ̧¥P:
DC Output	F€€€Y Á̧ÆFGX̄ĐI Œ̄ÆÆÁ̧X•à̄Đ̄Œ̄ FG€€Y Á̧ÆFGX̄ĐF€€Œ̄ÆÆÁ̧X•à̄Đ̄Œ̄ FÎ G€Y Á̧ÆFGX̄ĐFÍ €€Œ̄ÆÆÁ̧X•à̄Đ̄Œ̄
Certification	**80 PLUS PLATINUM** Á̧ **Platinum Certified** Á̧[**Test Report**]

PC Health Monitoring

CPU	T[}ā̧¦•Á̧̂¦ÁÔ̄ÚW̄Á̧Ô[¦^•Ê̄ÆF̄Ë̄XÆÁ̧Ë̄H̄Ë̄XÊ Ế̄ XÆÆFGXÆË̄H̄Ë̄XÁ̧Ù̄cæ̂}åà̧^ÆÆÍ X Ù̄cæ̂}åà̧^ÆÁ̧XÓŒVÆÁ̧T ^{[¦ˆ̄Ê̄Ô̄@̄ā•^c X[|œæ̂^•È Î̄ Ë̄Ú̄@æ̂•Ȩ̈ ã̄&@̄* Á̧[|œæ̂^Á̧Á̧^^ˇ|æ̂¦|Á̧ã̄@ æ̂d̄ Ë̄^}•Á̧[{ ÆÈ̄H̄Í Ë̄FǢË̄X
FAN	Ô[[|ā̧*Á̧[}^
Temperature	T[}ā̧¦ā̧*Á̧̂¦ÁÔ̄ÚW̄Á̧åÁ̧&@æ̂•ã̄ ^}çã̄[}{ ^}c

Operating Environment / Compliance

RoHS	Ü[PÙ̄Á̧Ô̄{]|ā̧æ̂}c
Environmental Spec.	U]^|æ̂ā̧* Á̧/^{]^|æ̂ˇ¦^Á̧Ÿ̄ ÆÆF€»Ô̄Á̧ǢH¬»Ô̄Á̧€»Ø̄Á̧ÆÍ ¬»Œ̄D Þ[|ā̧Ë̄]^|æ̂ā̧* Á̧/^{]^|æ̂ˇ¦^Á̧Ÿ̄ ÆǢË̄€»Ô̄Á̧Ã̄€»Ô̄Á̧Ÿ̄€»Ø̄Á̧ÆÍ Ì ¬»Œ̄D U]^|æ̂ā̧*Á̧ǞU^|æ̂æ̂^Á̧Ř̄ˇ{ ã̄æ̂ˇ̄Á̧Ÿ̄ ÆÁ̧Ã̄Á̧ÆÁ̧€Ã̄ Á̧Ŕ̄[}Ë̄&[}å^}•ā̧*D Þ[}ā̧Ë̄]^|æ̂æ̂*Á̧ǞU^|æ̂æ̂^Á̧Ř̄ˇ{ ã̄æ̂ˇ̄Á̧Ÿ̄ ÆÁ̧Ã̄Á̧ÆÁ̧ÆÍ Ã̄ Á̧Ŕ̄[}Ë̄&[}å^}•ā̧*D

Parts List

Parts List - (Items Included)

Á	Part Number	Qty	Description
Motherboard / Chassis	TÓ̄Ó̄Ë̄Ÿ̄F€Ù̄ǕȪË̄Á̧Á̧ Ô̄Ù̄Ò̄Ë̄JH̄ ÓP Ë̄F̄I G€Ó	Ì F	Ù̄]^|Á̧ÝÆ€Ù̄ǕȪË̄Á̧Á̧T[c̄@́¬à[¦ǣå H¬WÁ̧Ô̄@æ̂•ã̄
Add-on Card / Module	Œ̄ Ô̄Ë̄Ó̄ÚĖ̄c̄ŒÙ̄	Ì	Œ̄ Ô̄Ë̄Ó̄ÚĖ̄c̄ŒÙ̄ŬEUÙ̄
Air Shroud	TÔ̄Ú̄Ë̄F€Ë̄JH̄ ¬Ë̄HˍË̄Ó̄	Ì	Tˆ|æ̂Á̧Áæ̂åÁ̧ Á̧@[ˇ̄åÁ̧[¦ā̧*]Ë̄F̄Á̧|́Á̧ÁÙ̄Ô̄JH̄ Ë̄ÁŶ̄JÙ̄Ù̄Ȫ
Backplane	Ó̄Ú̄Þ̄Ë̄c̄ŒÙ̄Ë̄JH̄ P	F	Ó̄æ̂&̄\]|æ̂}^Á̧[¦Á̧ÁÙ̄Ô̄JH̄ Ë̄Á̧F̄I ¢ÁH̄Ë̄ äÁ̧Á̧̂Œ̄ÙÁ̧cŒ̄VŒ̄
Cable 1	Ô̄Ó̄Ś̄Ë̄GFÌ Š	F	FFǢ Ô̄T ÁSXTĐ̄WX¶̄H Á̧Ÿ̄Œ̄Đ̄Á̧V/U Á̧Ÿ̄Œ̄Đ̄F̄ Á̧Œ̄Đ̄Á̧GÁ̧WÙ̄Ó̄ǢH¬Ë̄Ô̄I Œ̄Y Ȭ
Label	Š̄Ó̄Ś̄Ë̄F€ì	F	Ô̄Œ̄WÁ̧Œ̄Đ̄ Þ̄Á̧ŚŒ̄Œ̄Ò̄Ò̄Ś̄Á̧ŒZ̄U ǞǕÒ̄Ò̄WÁ̧Ë̄Ô̄Œ̄Đ̄V/Á̧ÅÚY ǕÁ̧Ÿ̄Ù̄V̄Ò̄T Ù̄
Riser Card	ǕÙ̄Ô̄Ë̄ǕÚFW̄Ë̄Ó̄Ì	Ì	ǕÙ̄Ô̄Ë̄ǕÚFW̄Ë̄Ó̄Ì Á̧Ù̄^çÁ̧Á̧H¬Ë̄Đ̄D
Heatsink / Retention	Ù̄Þ̄SË̄Ë̄€€I Ï ÚŬ̄Ê̄	Ì	Ô̄ˇ•c̄{ ã̄^•å̄Á̧Ù̄æ̂•¬æ̂}^ÁŎ̄ÚW̄Á̧Ř̄^æ̂æ̂Ù̄ā̧ \Á̧|¦ÁT æ̂ã̄{[¦ā̧|[̄¬̄åÁ̧Ù̄^|ā̧•Á̧Ù̄^|¬ç^¦|•
Power Supply	ÚY Ù̄Ë̄F̄S̄I GŪË̄F̄Ǖ	G	FÎ G€Y Á̧ǞǕÒ̄Ò̄WÁ̧Đ̄Œ̄Đ̄V/Á̧ÅÚY Ò̄Ù̄ÆT ŪȪWŠ̄Ò̄

Optional Parts List

	Part Number	Qty	Description
MicroLP Card	AOC-CTG-i1S AOC-CTG-i2S AOC-CIBF-M1 AOC-CIBQ-M1	- - - -	- 10 Gigabit Ethernet Adapter - Dual-port 10 Gigabit Ethernet Adapter - InfiniBand FDR Adapter - InfiniBand QDR Adapter
HDD Converter	MCP-220-93801-0B	-	Black 3.5" Hot-swap to 2.5" HDD Tray (SC747, 936, 938 & Blade)
Add On Card	AOC-S2308L-L8i	-	STD Gen-3 PCI-E @8Gb/s,6Gb/s SAS,8 internal ports,low profile,RAID 0,1,10
Cable	CBL-0118L-03	-	For **AOC-S2308L-L8i**
Add On Card	AOC-SAS2LP-H8iR	-	2108 based SAS/SATA RAID- 8 internal ports/Low profile-PCI-E
Cable	CBL-0476L	-	For **AOC-SAS2LP-H8iR**
Onsite Service Program	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)

	Part Number	Qty	Description
MicroLP Card	AOC-CTG-i1S AOC-CTG-i2S AOC-CIBF-M1 AOC-CIBQ-M1	- - - -	- 10 Gigabit Ethernet Adapter - Dual-port 10 Gigabit Ethernet Adapter - InfiniBand FDR Adapter - InfiniBand QDR Adapter