

AOC-M25G-i2S AOC-M25G-i2SM



User's Guide

Revision 1.0a

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Preface

About this User's Guide

This user's guide is written for system integrators, PC technicians and knowledgeable PC users. It provides information for the installation and use of the AOC-M25G-i2S/i2SM add-on card.

About this Add-on Card

The Supermicro® AOC-M25G-i2S/i2SM is one of the most advanced 25GbE controllers in the market. It provides two ports of 25GbE SFP28 connectivity in a small SIOM (Super I/O Module) form factor and is based on the Intel® XXV710 chipset. The 25GbE bandwidth enables rapid networking deployment in an agile data center environment. Supermicro® Asset Management and thermal detection give the extra layer of controller health management and peace of mind. For customers who require faster and more reliable networking demands, the AOC-M25G-i2S/i2SM is an excellent choice to enhance network connectivity in data centers and enterprise environments

An Important Note to the User

All images and layouts shown in this user's guide are based upon the latest PCB revision available at the time of publishing. The card you have received may or may not look exactly the same as the graphics shown in this user's guide.

Returning Merchandise for Service

A receipt or copy of your invoice marked with the date of purchase is required before any warranty service will be rendered. You can obtain service by calling your vendor for a Returned Merchandise Authorization (RMA) number. When returning the add-on card to the manufacturer, the RMA number should be prominently displayed on the outside of the shipping carton, and the shipping package is mailed prepaid or hand-carried. Shipping and handling charges will be applied for all orders that must be mailed when service is complete. For faster service, you can also request an RMA authorization online http://www.supermicro.com/RmaForm/.

This warranty only covers normal consumer use and does not cover damages incurred in shipping or from failure due to the alternation, misuse, abuse or improper maintenance of products.

During the warranty period, contact your distributor first for any product problems.

Conventions Used in the User's Guide

Pay special attention to the following symbols for proper system installation and for safety instructions to prevent damage to the system or injury to yourself:



Warning: Important information given to ensure proper system installation or to prevent damage to the components or injury to yourself.



Note: Additional information given to differentiate between various models or provides information for correct system setup.

Naming Convention for Standard Network Adapters



Character	Representation	Options
1st	Product Family	AOC: Add On Card
2nd	Form Factor	S: Standard, P: Proprietary, C: MicroLP, M: Super IO Module (SIOM), MH: SIOM Hybrid A: Advanced IO Module (AIOM), AH: AIOM Hybrid
3rd	Product Type/Speed	G: GbE (1Gb/s), TG: 10GbE (10Gb/s), 25G: 25GbE (25Gb/s), 40G: 40GbE (40Gb/s), 50G: 50GbE (50Gb/s), 100G: 100GbE (100Gb/s), IBE: EDR IB (100Gb/s), HFI: Host Fabric Interface
4th	Chipset Model (Optional)	N: Niantec (82599), P: Powerville (1350), S: Sageville (X550), F: Fortville (XL710/X710), L: Lewisburg (PCH)
5th	Chipset Manufacturer	i: Intel, m: Mellanox, b: Broadcom
6th	Number of Ports	1: 1 port, 2: 2 ports, 4: 4 ports, 8: 8 ports
7th	Connector Type (Optional)	S: SFP/SFP+/SFP28, T: 10GBase-T, Q: QSFP+, C: QSFP28
8th	2 nd Controller/Connector Type (Optional)	G: 1x GbE RJ45, 2G: GbE 2x RJ45, S: 1x 10G SFP+, T: 10GBase-T, 2T: 2x 10GBase-T, 2S: 2x SFP+
9th	Bracket	For SIOM – Non-M: swappable bracket for Storage systems, M: Internal bracket for Twin systems. For AIOM – Non-M: 1U height bracket for Edge systems, M: 0.5U height bracket for all other systems.

Networking Adapter List

Model	Туре	Form Factor	Controller	Connection	Dimension (w/o Brackets) (L x H)	Power (W)
AOC-MGP-i2	GbE	SIOM	Intel® i350 AM2	2 RJ45 (1Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	3.7
AOC-MGP-i4	GbE	SIOM	Intel® i350 AM4	4 RJ45 (1Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	4.4
AOC-MTGN-i2S	10GbE	SIOM	Intel® 82599ES	2 SFP+ (10Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	7.2
AOC-MTG-I4S	10GbE	SIOM	Intel® XL710-BM1	4 SFP+ (10Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	7
AOC-MTG-b2T	10GbE	SIOM	Broadcom® BCM57416	2 RJ45 (10GBase-T)	3.622" (92mm) x 3.428" (87.08mm)	11
AOC-MTG-i2T	10GbE	SIOM	Intel® X550-AT2	2 RJ45 (10GBase-T)	3.622" (92mm) x 3.428" (87.08mm)	13
AOC-MTG-i4T	10GbE	SIOM	2x Intel® X550-AT2	4 RJ45 (10GBase-T)	3.622" (92mm) x 3.428" (87.08mm)	26
AOC-MHIBF-m1Q2G	FDR IB GbE	SIOM	Mellanox® ConnectX-3 Pro Intel® i350	1 QSFP (56Gb/port) 2 RJ45 (1Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	9
AOC-MHIBF-m2Q2G	FDR IB GbE	SIOM	Mellanox® ConnectX-3 Pro Intel® i350	2 QSFP (56Gb/port) 2 RJ45 (1Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	11
AOC-MHIBE-m1CG	EDR IB GbE	SIOM	Mellanox® ConnectX-4 VPI Intel® i210	1 QSFP28 (100Gb/port) 1 RJ45 (1Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	19
AOC-MH25G-b2S2G	25GbE	SIOM	Broadcom® BCM57414 Intel® i350	2 SFP28 (25Gb/port) 2 RJ45 (1Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	9
AOC-MH25G-m2S2T	25GbE	SIOM	Mellanox® ConnectX-4 Lx EN Intel® X550-AT2	2 SFP28 (25Gb/port) 2 RJ45 (10GBase-T)	3.622" (92mm) x 3.428" (87.08mm)	25
AOC-M25G-m4S	25GbE	SIOM	Mellanox® ConnectX-4 Lx EN	4 SFP28 (25Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	20
AOC-M25G-I2S	25GbE	SIOM	Intel® XXV710	2 SFP28 (25Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	11.8
AOC-MHFI-i1C	Omni- Path	SIOM	Intel® OP HFI ASIC (Wolf River WFR-B)	1 QSFP28 (100Gb/port)	3.622" (92mm) x 3.428" (87.08mm)	15

AOC-5GP-14 GDE Standard LP PCI-E x8 Intel® X540-AT2 2 RJ45 (100-Base-T) 5.9" (150mm) x 2.73" (89mm) AOC-5TG-12T 100-BE Standard LP PCI-E x8 Intel® X540-AT2 2 RJ45 (100-Base-T) 5.9" (150mm) x 2.73" (89mm) AOC-5TG-12T 100-BE Standard LP PCI-E x8 Intel® X550-AT 1 RJ45 (100-Base-T) 5.9" (150mm) x 2.73" (89mm) AOC-5TG-12T 100-BE Standard LP PCI-E x8 Broadcome BCM57416 2 RJ45 (100-Base-T) 5.9" (150mm) x 2.73" (89mm) AOC-5TG-12T 100-BE Standard LP PCI-E x8 Broadcome BCM57416 2 RJ45 (100-Base-T) 5.5" (142mm) x 2.73" (89mm) AOC-5TG-12T 100-BE Standard LP PCI-E x8 Intel® X259-BEN 1 \$FP+ (100-Base-T) 5.5" (142mm) x 2.73" (89mm) AOC-5TG-14T 100-BE Standard LP PCI-E x8 Intel® X259-BEN 1 \$FP+ (100-Base-T) 5.9" (145mm) x 2.73" (89mm) AOC-5TG-14T 100-BE Standard LP PCI-E x8 Intel® X259-BEN 1 \$FP+ (100-Bport) 4.0" (102mm) x 2.73" (89mm) AOC-5TG-14S 100-BE Standard LP PCI-E x8 Intel® X259-BEN 2 \$FP+ (100-Bport) 4.0" (102mm) x 2.73" (89mm) AOC-5TG-14S 100-BE Standard LP PCI-E x8 Intel® X710-BM2 2 \$FP+ (100-Bport) 5.19" (132mm) x 2.73" (89mm) AOC-5TG-14S 100-BE Standard LP PCI-E x8 Broadcome BCM578405 4 \$FP+ (100-Bport) 5.4" (137mm) x 2.73" (89mm) AOC-5TG-14S 100-BE Standard LP PCI-E x8 Broadcome BCM578405 4 \$FP+ (100-Bport) 5.4" (137mm) x 2.73" (89mm) AOC-5250-m25 250-BE Standard LP PCI-E x8 Broadcome BCM578405 4 \$FP+ (100-Bport) 5.5" (150mm) x 2.73" (89mm) AOC-5250-m25 250-BE Standard LP PCI-E x8 Broadcome BCM57414 2 \$FP28 (250-Bport) 5.5" (150mm) x 2.73" (89mm) AOC-5250-M25 250-BE Standard LP PCI-E x8 Intel® XX710-BM 1 0 \$FP28 (250-Bport) 5.5" (150mm) x 2.73" (89mm) AOC-5400-HQ 400-BE Standard LP PCI-E x8 Intel® XX710-BM 2 0 \$FP28 (250-Bport) 5.5" (150mm) x 2.73" (89mm) AOC-5400-HQ 400-BE Standard LP PCI-E x8 Intel® XX710-BM 2 0 \$FP28 (200-Bport) 5.5" (150mm) x 2.73" (89mm) AOC-5400-HQ 400-BE Standard LP PCI-E x8 Intel® XX710-BM 2 0 \$FP28 (200-Bport) 5.5" (150mm) x 2.73" (89mm) AOC-5400-HQ 400-BE Standard LP PCI-E x8 Intel® XX710-BM 2 0 \$FP28 (200-Bport) 5.5" (150mm) x 2.73" (89mm) AOC-5400-HQ 400-BE Standard LP PCI-E x8 Intel	Model	Type	Form Factor	Interface	Controller	Connection	Dimension (w/o Brackets) (L x H)	Power (W)
AOC-STG-12T 100bE Standard LP PCIE x8 Intel® X540-AT2 2 R.145 (100Base-T) 5.9" (150mm) x 2.73" (69mm) AOC-STG-12T 100bE Standard LP PCIE x4 Intel® X550-AT 1 R.145 (100Base-T) 5.9" (150mm) x 2.73" (69mm) AOC-STG-12T 100bE Standard LP PCIE x8 Intel® X550-AT 2 R.145 (100Base-T) 5.9" (150mm) x 2.73" (69mm) AOC-STG-14T 100bE Standard LP PCIE x8 Intel® X550-AT 2 R.145 (100Base-T) 5.9" (150mm) x 2.73" (69mm) AOC-STG-14T 100bE Standard LP PCIE x8 Intel® X250BEN 1 SFP- (100Bport) 4.0" (102mm) x 2.73" (69mm) AOC-STG-12S 100bE Standard LP PCIE x8 Intel® X250BEN 1 SFP- (100bport) 4.0" (102mm) x 2.73" (69mm) AOC-STG-12S 100bE Standard LP PCIE x8 Intel® X250BEN 2 SFP- (100bport) 4.0" (102mm) x 2.73" (69mm) AOC-STG-14S 100bE Standard LP PCIE x8 Intel® X250BEN 2 SFP- (100bport) 5.19" (102mm) x 2.73" (69mm) AOC-STG-14S 100bE Standard LP PCIE x8 Intel® X250BEN 2 SFP- (100bport) 5.19" (102mm) x 2.73" (69mm) AOC-STG-14S 100bE Standard LP PCIE x8 Intel® X250BEN 2 SFP- (100bport) 5.19" (102mm) x 2.73" (69mm) AOC-S250-M2S 250bE Standard LP PCIE x8 Intel® X270-MM 4 SFP- (100bport) 5.6" (142mm) x 2.73" (69mm) AOC-3250-M2S 250bE Standard LP PCIE x8 Intel® XX710-MM 4 SFP- (100bport) 5.6" (142mm) x 2.73" (69mm) AOC-3250-M2S 250bE Standard LP PCIE x8 Intel® XX710-MM 1 SFP- (100bport) 5.6" (142mm) x 2.73" (69mm) AOC-3250-M2S 250bE Standard LP PCIE x8 Intel® XX710-MM 1 3 SFP2 (250bport) 5.6" (142mm) x 2.71" (69mm) AOC-3250-M2S 250bE Standard LP PCIE x8 Intel® XX710-MM 1 3 SFP2 (250bport) 5.6" (142mm) x 2.71" (69mm) AOC-3250-M2S 250bE Standard LP PCIE x8 Intel® XX710-MM 1 3 SFP2 (250bport) 5.6" (150mm) x 2.73" (69mm) AOC-3100-M2 3 SFP2 (250bport) 5.5" (150mm) x 2.73" (69mm) AOC-3100-M2 3 SFP2 (250bport) 5.5" (150mm) x 2.73" (69mm) AOC-3100-M2 3 SFP2 (250bport) 5.5" (150mm) x 2.73" (69mm) AOC-3100-M2 3 SFP2 (250bport) 5.5" (150mm) x 2.73" (69mm) AOC-3100-M2 3 SFP2 (250bport) 5.5" (150mm) x 2.73" (69mm) AOC-3100-M2 3 SFP2 (250bport) 5.5" (150mm) x 2.73" (69mm) AOC-3100-M2 3 SFP2 (250bport) 5.5" (150mm) x 2.73" (69mm) AOC-3100-M2 3 SFP2 (250bpor	AOC-SGP-I2	GbE	Standard LP	PCI-E x4	Intel® i350 AM2	2 RJ45 (1Gb/port)	3.9" (99mm) x 2.73" (69mm)	3.5
AOC-STGS-HT 100BE Standard LP PCI-E x4 Intel® X550-AT 1 R.45 (10GBase-T) 5.9" (150mm) x 2.73" (69mm) AOC-STGS-H2T 100BE Standard LP PCI-E x4 Intel® X550-AT 2 R.45 (10GBase-T) 5.9" (150mm) x 2.73" (69mm) AOC-STGS-H2T 100BE Standard LP PCI-E x8 Intel® X250-BM57416 2 R.45 (10GBase-T) 5.5" (142mm) x 2.73" (69mm) AOC-STGN-H5 100BE Standard LP PCI-E x8 Intel® X259EN 1 SFP+ (10Gblport) 4.0" (102mm) x 2.73" (69mm) AOC-STGN-H5 100BE Standard LP PCI-E x8 Intel® X259EN 1 SFP+ (10Gblport) 4.0" (102mm) x 2.73" (69mm) AOC-STGN-H5 100BE Standard LP PCI-E x8 Intel® X259EN 2 SFP+ (10Gblport) 4.0" (102mm) x 2.73" (69mm) AOC-STGN-H5 100BE Standard LP PCI-E x8 Intel® X710-BM2 2 SFP+ (10Gblport) 5.1" (102mm) x 2.73" (69mm) AOC-STGN-H5 100BE Standard LP PCI-E x8 Intel® X710-BM2 2 SFP+ (10Gblport) 5.1" (102mm) x 2.73" (69mm) AOC-STGN-H5 100BE Standard LP PCI-E x8 Intel® X710-BM2 4 SFP+ (10Gblport) 5.9" (150mm) x 2.73" (69mm) AOC-S25G-m2S 25GBE Standard LP PCI-E x8 Intel® X710-BM1 4 SFP+ (10Gblport) 5.9" (150mm) x 2.73" (69mm) AOC-S25G-m2S 25GBE Standard LP PCI-E x8 Intel® X710-BM1 4 SFP+ (10Gblport) 5.9" (150mm) x 2.73" (69mm) AOC-S25G-L2S 25GBE Standard LP PCI-E x8 Intel® X710-BM1 4 SFP+ (10Gblport) 5.9" (150mm) x 2.73" (69mm) AOC-S25G-L2S 25GBE Standard LP PCI-E x8 Intel® X710-BM1 1 SFP+ (40Gblport) 5.9" (150mm) x 2.73" (69mm) AOC-S40G-L2G 40GBE Standard LP PCI-E x8 Intel® X710-BM1 1 QSFP+ (40Gblport) 5.9" (150mm) x 2.73" (69mm) AOC-S40G-L2G 40GBE Standard LP PCI-E x8 Intel® X710-BM1 1 QSFP+ (40Gblport) 5.9" (150mm) x 2.73" (69mm) AOC-S40G-L2G 40GBE Standard LP PCI-E x8 Intel® X710-BM2 2 QSFP28 (100Gblport) 5.9" (150mm) x 2.73" (69mm) AOC-S40G-L2G 40GBE Standard LP PCI-E x8 Intel® X710-BM2 2 QSFP28 (100Gblport) 6.6" (158mm) x 2.73" (69mm) AOC-S40G-L2G 40GBE Standard LP PCI-E x8 Intel® X710-BM2 2 QSFP28 (100Gblport) 6.6" (158mm) x 2.73" (69mm) AOC-S40G-L2G 40GBE Standard LP PCI-E x8 Intel® X710-BM2 2 QSFP28 (100Gblport) 6.6" (158mm) x 2.73" (69mm) AOC-S40G-L2G 40GBE MicroLP PCI-E x8 Intel® X259BEN 1 SFP+ (40Gblport) 6.6" (158mm) x 2	AOC-SGP-i4	GbE	Standard LP	PCI-E x4	Intel® i350 AM4	4 RJ45 (1Gb/port)	3.9" (99mm) x 2.73" (69mm)	5
AOC-STG-8-2T 100BE Standard LP PCIE-X8 Broadcom® BCM57416 2 R.J45 (100Base-T) 5.9" (150mm) x 2.73" (69mm) AOC-STG-B-ZT 100BE Standard LP PCIE-X8 Broadcom® BCM57416 2 R.J45 (100Base-T) 5.6" (142mm) x 2.73" (69mm) AOC-STG-14T 100BE Standard LP PCIE-X8 Intel® X.710-BM1 4 R.J45 (100Base-T) 5.9" (149mm) x 2.73" (69mm) AOC-STG-12S 100BE Standard LP PCIE-X8 Intel® 2599ES 2 SFP+ (100B)port) 4.0" (102mm) x 2.73" (69mm) AOC-STG-12S 100BE Standard LP PCIE-X8 Intel® 2599ES 2 SFP+ (100B)port) 4.0" (102mm) x 2.73" (69mm) AOC-STG-12S 100BE Standard LP PCIE-X8 Intel® X.710-BM2 2 SFP+ (100B)port) 5.19" (132mm) x 2.73" (69mm) AOC-STG-12S 100BE Standard LP PCIE-X8 Intel® X.710-BM2 2 SFP+ (100B)port) 5.19" (132mm) x 2.73" (69mm) AOC-STG-14S 100BE Standard LP PCIE-X8 Intel® X.710-BM2 4 SFP+ (100B)port) 5.4" (137mm) x 2.73" (69mm) AOC-S26G-m2S 250BE Standard LP PCIE-X8 Intel® X.710-BM1 4 SFP+ (100B)port) 5.5" (142mm) x 2.73" (69mm) AOC-526G-B2S 250BE Standard LP PCIE-X8 Intel® X.710-BM1 4 SFP+ (100B)port) 5.6" (142mm) x 2.710" (69mm) AOC-526G-B2S 250BE Standard LP PCIE-X8 Intel® X.710-BM1 4 SFP+ (200B)port) 5.5" (142mm) x 2.710" (69mm) AOC-526G-B2S 250BE Standard LP PCIE-X8 Intel® X.710-BM1 4 SFP+ (200B)port) 5.5" (142mm) x 2.710" (69mm) AOC-540G-IQ 400BE Standard LP PCIE-X8 Intel® X.710-BM1 1 QSFP+ (400B)port) 5.5" (150mm) x 2.73" (69mm) AOC-540G-IQ 400BE Standard LP PCIE-X8 Intel® X.710-BM1 1 QSFP+ (400B)port) 6.5" (150mm) x 2.73" (69mm) AOC-540G-IQ 400BE Standard LP PCIE-X8 Intel® X.710-BM1 1 QSFP+ (400B)port) 6.5" (150mm) x 2.73" (69mm) AOC-5100C-M2 400BE Standard LP PCIE-X8 Intel® X.710-BM2 2 QSFP2 (100B)port) 6.5" (150mm) x 2.73" (69mm) AOC-5100C-M2 400BE Standard LP PCIE-X8 Intel® X.710-BM2 2 QSFP2 (100B)port) 6.5" (150mm) x 2.73" (69mm) AOC-5100C-M2 400BE Standard LP PCIE-X8 Intel® X.710-BM2 2 QSFP2 (100B)port) 6.5" (150mm) x 2.73" (69mm) AOC-5100C-M2 400BE Standard LP PCIE-X8 Intel® X.710-BM2 2 QSFP2 (100B)port) 6.5" (150mm) x 2.73" (69mm) AOC-5100C-M2 4 ABC (100B)port) 6.5" (150mm) x 2.73" (69mm) AOC-5100C-M2 4 ABC (100B)p	AOC-STG-I2T	10GbE	Standard LP	PCI-E x8	Intel® X540-AT2	2 RJ45 (10GBase-T)	5.9" (150mm) x 2.73" (69mm)	13
AOC-5TG-b2T 100BE Standard LP PCI-E x8 Broadcom® BCM57416 2 RJ45 (100Base-T) 5.6" (142mm) x 2.73" (69mm) AOC-5TG-b2T 100BE Standard LP PCI-E x8 Intel® XL710-BM1 4 RJ45 (100Base-T) 5.9" (149mm) x 2.73" (69mm) AOC-5TGN-12S 100BE Standard LP PCI-E x8 Intel® 82899EN 1 SFP+ (100Biport) 4.0" (102mm) x 2.73" (69mm) AOC-5TGN-12S 100BE Standard LP PCI-E x8 Intel® 82899ES 2 SFP+ (100Biport) 4.0" (102mm) x 2.73" (69mm) AOC-5TG-b4S 100BE Standard LP PCI-E x8 Intel® X710-BM2 2 SFP+ (100Biport) 5.19" (132mm) x 2.73" (69mm) AOC-5TG-b4S 100BE Standard LP PCI-E x8 Broadcom® BCM57840S 4 SFP+ (100Biport) 5.4" (137mm) x 2.73" (69mm) AOC-5TG-b4S 100BE Standard LP PCI-E x8 Broadcom® BCM57840S 4 SFP+ (100Biport) 5.4" (137mm) x 2.73" (69mm) AOC-5826-D2S 250BE Standard LP PCI-E x8 Broadcom® BCM578414 2 SFP28 (250Biport) 5.6" (142mm) x 2.713" (69mm) AOC-5256-D2S 250BE Standard LP PCI-E x8 Broadcom® BCM57414 2 SFP28 (250Biport) 5.6" (142mm) x 2.713" (69mm) AOC-5256-D2S 250BE Standard LP PCI-E x8 Intel® XX7710 2 SFP28 (250Biport) 5.5" (142mm) x 2.713" (69mm) AOC-540G-12Q 400BE Standard LP PCI-E x8 Intel® XX710-BM1 1 QSFP4 (460Biport) 5.5" (150mm) x 2.73" (69mm) AOC-540G-12Q 400BE Standard LP PCI-E x8 Intel® XX710-BM2 2 SFP4 (400Biport) 5.5" (150mm) x 2.73" (69mm) AOC-540G-12Q 400BE Standard LP PCI-E x8 Intel® XX710-BM2 2 QSFP4 (400Biport) 5.6" (150mm) x 2.73" (69mm) AOC-510G-m2C 100GBE Standard LP PCI-E x8 Intel® X210-BM2 2 QSFP4 (400Biport) 6.6" (150mm) x 2.73" (69mm) AOC-510G-m2C 100GBE Standard LP PCI-E x8 Intel® X210-BM2 2 QSFP4 (400Biport) 6.6" (150mm) x 2.73" (69mm) AOC-510G-m2C 100GBE Standard LP PCI-E x8 Intel® X210-BM2 2 QSFP4 (400Biport) 6.6" (150mm) x 2.73" (69mm) AOC-510G-m2C 100GBE Standard LP PCI-E x8 Intel® X210-BM2 2 QSFP4 (400Biport) 6.6" (150mm) x 2.73" (69mm) AOC-510G-m2C 100GBE Standard LP PCI-E x8 Intel® X210-BM2 2 QSFP4 (400Biport) 6.6" (150mm) x 2.73" (69mm) AOC-510G-m2C 100GBE Standard LP PCI-E x8 Intel® X210-BM2 2 QSFP4 (400Biport) 6.6" (150mm) x 2.73" (69mm) AOC-510G-M2 QBB MCC-LP PCI-E x8 Intel® X210-BM2 2 QSFP4	AOC-STGS-I1T	10GbE	Standard LP	PCI-E x4	Intel® X550-AT	1 RJ45 (10GBase-T)	5.9" (150mm) x 2.73" (69mm)	9
AOC-STG-14T 100BE Standard LP PCI-E x8 Intel® XL710-BM1 4 R.445 (100Base-T) 5.9" (149mm) x 2.73" (89mm) AOC-STGN-11S 100BE Standard LP PCI-E x8 Intel® 82599EN 1 SFP+ (100Biport) 4.0" (102mm) x 2.73" (89mm) AOC-STGN-12S 100BE Standard LP PCI-E x8 Intel® 82599ES 2 SFP+ (100Biport) 4.0" (102mm) x 2.73" (89mm) AOC-STG-14S 100BE Standard LP PCI-E x8 Intel® XT10-BM2 2 SFP+ (100Biport) 5.19" (132mm) x 2.73" (89mm) AOC-STG-14S 100BE Standard LP PCI-E x8 Intel® XL710-BM1 4 SFP+ (100Biport) 5.9" (150mm) x 2.73" (89mm) AOC-STG-14S 100BE Standard LP PCI-E x8 Intel® XL710-BM1 4 SFP+ (100Biport) 5.9" (150mm) x 2.73" (89mm) AOC-S250-B2S 250BE Standard LP PCI-E x8 Belancem B CM57414 2 SFP28 (250Biport) 5.5" (142mm) x 2.73" (89mm) AOC-3250-B2S 250BE Standard LP PCI-E x8 Broadcome B CM57414 2 SFP28 (250Biport) 5.6" (142mm) x 2.71" (89mm) AOC-350G-B2S 250BE Standard LP PCI-E x8 Intel® XL710-BM1 0 SFP28 (250Biport) 5.5" (150mm) x 2.71" (89mm) AOC-350G-B2S 250BE Standard LP PCI-E x8 Intel® XL710-BM1 0 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B2G 200B CM3744 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B2G 200B CM3744 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B2G 200B CM3744 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B2G 200B CM3744 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B2G 200B CM3744 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B2G 200B CM3744 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B2G 200B CM3744 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B10G CM3745 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B10G CM3745 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B10G CM3745 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B10G CM3745 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B10G CM3745 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B10G CM3745 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B10G CM3745 2 SFP28 (250Biport) 5.9" (150mm) x 2.73" (89mm) AOC-350G-B	AOC-STGS-I2T	10GbE	Standard LP	PCI-E x4	Intel® X550-AT2	2 RJ45 (10GBase-T)	5.9" (150mm) x 2.73" (69mm)	11
AOC-STGN-HS 100BE Standard LP PCIE-X8 Intel® 82599EN 1 SFP+ (100B)port) 4.0" (102mm) x 2.73" (69mm) AOC-STGN-H2S 100BE Standard LP PCIE-X8 Intel® 82599ES 2 SFP+ (100B)port) 4.0" (102mm) x 2.73" (69mm) AOC-STGN-H2S 100BE Standard LP PCIE-X8 Intel® 82599ES 2 SFP+ (100B)port) 5.19" (102mm) x 2.73" (69mm) AOC-STGN-HS 100BE Standard LP PCIE-X8 Intel® X710-BM2 2 SFP+ (100B)port) 5.4" (137mm) x 2.73" (69mm) AOC-STGN-HS 100BE Standard LP PCIE-X8 Intel® X710-BM1 4 SFP+ (100B)port) 5.9" (150mm) x 2.73" (69mm) AOC-S25G-m2S 250BE Standard LP PCIE-X8 Mellanox® CX-4 LX 2 SFP28 (250B)port) 5.6" (142mm) x 2.73" (69mm) AOC-525G-L2S 250BE Standard LP PCIE-X8 Broadcom® BCMS7414 2 SFP28 (250B)port) 5.6" (142mm) x 2.713" (69mm) AOC-525G-L2S 250BE Standard LP PCIE-X8 Intel® XXV710 2 SFP28 (250B)port) 5.6" (142mm) x 2.713" (69mm) AOC-525G-L2S 250BE Standard LP PCIE-X8 Intel® XXV710 1 SFP28 (250B)port) 5.9" (150mm) x 2.73" (69mm) AOC-540G-L1Q 400BE Standard LP PCIE-X8 Intel® XXV710 1 SFP28 (250B)port) 5.9" (150mm) x 2.73" (69mm) AOC-540G-L2Q 400BE Standard LP PCIE-X8 Intel® XXT10-BM1 1 GSFP+ (400B)port) 5.9" (150mm) x 2.73" (69mm) AOC-510G-ADC 100GBE Standard LP PCIE-X8 Intel® XXT10-BM2 2 GSFP28 (100B)port) 5.9" (150mm) x 2.73" (69mm) AOC-510G-ADC 100GBE Standard LP PCIE-X8 Intel® XXT10-BM2 2 GSFP28 (100B)port) 6.6" (158mm) x 2.73" (69mm) AOC-510G-ADC 100GBE Standard LP PCIE-X8 Intel® ADC-S10GO-BDC 100GD)port) 6.6" (158mm) x 2.73" (69mm) AOC-510G-ADC 100GBE Standard LP PCIE-X8 Intel® ADC-S10GO-BDC 100GD)port) 6.4" (158mm) x 2.73" (69mm) AOC-510G-ADC 100GBE MicroLP PCIE-X8 Intel® 82599EN 1 SFP+ (100B)port) 6.48" (133mm) x 1.44" (39mm) AOC-CTG-L2S 10GBE MicroLP PCIE-X8 Intel® 82599EN 1 SFP+ (100B)port) 4.88" (123mm) x 1.54" (39mm)	AOC-STG-b2T	10GbE	Standard LP	PCI-E x8	Broadcom® BCM57416	2 RJ45 (10GBase-T)	5.6" (142mm) x 2.73"(69mm)	13.1
AOC-5TGN-12\$ 100BE Standard LP PCI-E x8 Intel® X2199ES 2 SFP+ (10Gb)port) 4.0" (102mm) x 2.73" (69mm) AOC-5TGP-12\$ 100BE Standard LP PCI-E x8 Intel® X710-BM2 2 SFP+ (10Gb)port) 5.19" (132mm) x 2.73" (69mm) AOC-5TG-12\$ 100BE Standard LP PCI-E x8 Intel® X710-BM2 4 SFP+ (10Gb)port) 5.4" (137mm) x 2.73" (69mm) AOC-525G-0-2\$ 250BE Standard LP PCI-E x8 Intel® X170-BM1 4 SFP+ (10Gb)port) 5.6" (142mm) x 2.73" (69mm) AOC-525G-0-2\$ 250BE Standard LP PCI-E x8 Intel® XX710-BM1 4 SFP+ (10Gb)port) 5.6" (142mm) x 2.73" (69mm) AOC-525G-0-2\$ 250BE Standard LP PCI-E x8 Intel® XX710 (50mm) 2 SFP28 (250b)port) 5.6" (142mm) x 2.713" (69mm) AOC-525G-0-2\$ 250BE Standard LP PCI-E x8 Intel® XX710-BM1 1 QSFP2 (250b)port) 5.6" (142mm) x 2.713" (69mm) AOC-540G-110 400BE Standard LP PCI-E x8 Intel® XX710-BM1 1 QSFP2 (400b)port) 5.5" (150mm) x 2.73" (69mm) AOC-540G-12Q 400BE Standard LP PCI-E x8 Intel® XX710-BM2 2 GSFP2 (400b)port) 5.5" (150mm) x 2.73" (69mm) AOC-5100C-m2C 100GBE Standard LP PCI-E x8 Intel® XX10-BM2 2 GSFP2 (400b)port) 5.6" (158mm) x 2.73" (69mm) AOC-5100C-m2C 100GBE Standard LP PCI-E x8 Intel® X20-BM2 2 GSFP2 (1000b)port) 5.6" (158mm) x 2.73" (69mm) AOC-5100C-m2C 100GBE Standard LP PCI-E x8 Intel® X20-BM2 2 GSFP2 (1000b)port) 5.6" (158mm) x 2.73" (69mm) AOC-5100C-m2C 100GBE Standard LP PCI-E x8 Intel® X20-BM2 2 GSFP2 (1000b)port) 5.6" (158mm) x 2.73" (69mm) AOC-5100C-m2C 100GBE Standard LP PCI-E x8 Intel® X20-BM2 2 GSFP2 (1000b)port) 5.6" (158mm) x 2.73" (69mm) AOC-5100C-m2C 100GBE Standard LP PCI-E x8 Intel® X20-BM2 2 GSFP2 (1000b)port) 5.4" (158mm) x 2.73" (69mm) AOC-5100C-M2C 100GBE Standard LP PCI-E x8 Intel® X20-BM2 2 GSFP2 (1000b)port) 5.4" (158mm) x 2.73" (69mm) AOC-5100C-M2C 100GBE Standard LP PCI-E x8 Intel® X20-BM2 2 GSFP2 (1000b)port) 5.4" (158mm) x 2.73" (69mm) AOC-5100C-M2C 100GBE Standard LP PCI-E x8 Intel® X20-BM2 2 GSFP2 (1000b)port) 5.4" (158mm) x 2.73" (69mm) AOC-5100C-M2C 100GBE Standard LP PCI-E x8 Intel® X20-BM2 2 GSFP2 (1000b)port) 5.4" (158mm) x 2.73" (69mm) AOC-5100C-M2C 100GBE Standard LP PCI-E x8	AOC-STG-i4T	10GbE	Standard LP	PCI-E x8	Intel® XL710-BM1	4 RJ45 (10GBase-T)	5.9" (149mm) x 2.73"(69mm)	15.5
AOC-5TGF-I2S 100BE Standard LP PCI-E x8 Intel® X710-BM2 2 SFP+ (100Biport) 5.19" (132mm) x 2.73" (89mm) AOC-5TGF-I4S 100BE Standard LP PCI-E x8 Broadcom® BCM57840 \$ 4 SFP+ (100Biport) 5.4" (137mm) x 2.73" (89mm) AOC-5TG-I4S 100BE Standard LP PCI-E x8 Intel® XL710-BM1 4 SFP+ (100Biport) 5.9" (150mm) x 2.73" (89mm) AOC-5250-M2S 250BE Standard LP PCI-E x8 Broadcom® BCM57814 2 SFP28 (250Biport) 5.5" (142mm) x 2.713" (89mm) AOC-5250-B2S 250BE Standard LP PCI-E x8 Broadcom® BCM57814 2 SFP28 (250Biport) 5.5" (142mm) x 2.713" (89mm) AOC-5250-B2S 250BE Standard LP PCI-E x8 Intel® XXV710 2 SFP28 (250Biport) 5.5" (142mm) x 2.713" (89mm) AOC-540G-I1Q 400BE Standard LP PCI-E x8 Intel® XXV710 2 SFP28 (250Biport) 5.5" (150mm) x 2.73" (89mm) AOC-540G-IQ 400BE Standard LP PCI-E x8 Intel® XXT10-BM1 1 QSFP+ (400Biport) 5.5" (150mm) x 2.73" (89mm) AOC-5100G-M2C 1000BE Standard LP PCI-E x8 Intel® XXT0-BM2 2 QSFP28 (1000Biport) 5.5" (150mm) x 2.73" (89mm) AOC-5100G-M2C 1000BE Standard LP PCI-E x8 Intel® X20-B2BE AVECA-B2BE (1000Biport) 6.5" (158mm) x 2.73" (89mm) AOC-5100G-B1C 1000BE Standard LP PCI-E x8 Intel® X20-B2BE (100Biport) 6.5" (158mm) x 2.73" (89mm) AOC-5100G-B1C 1000BE Standard LP PCI-E x8 Intel® X20-B2BE (100Biport) 6.5" (158mm) x 2.73" (89mm) AOC-5100G-B1C 1000BE Standard LP PCI-E x8 Intel® X20-B2BE (100Biport) 6.5" (158mm) x 2.73" (89mm) AOC-5101G-B1C 100BE Standard LP PCI-E x8 Intel® X20-B2BE (100Biport) 6.5" (158mm) x 2.73" (89mm) AOC-5101G DDE MICROLP PCI-E x8 Intel® X20-B2BE 1 SFP+ (100Biport) 6.48" (133mm) x 1.44" (39mm) AOC-5101G DDE MICROLP PCI-E x8 Intel® X20-B2BE 1 SFP+ (100Biport) 4.88" (123mm) x 1.44" (39mm) AOC-5101G DDE MICROLP PCI-E x8 Intel® X20-B2BE 2 SFP+ (100Biport) 4.88" (123mm) x 1.44" (39mm)	AOC-STGN-i1S	10GbE	Standard LP	PCI-E x8	Intel® 82599EN	1 SFP+ (10Gb/port)	4.0" (102mm) x 2.73" (69mm)	10
AOC-5TG-b4S 100BE Standard LP PCI-E x8 Broadcom® BCM57840S 4 SFP+ (100b)port) 5.4" (137mm) x 2.73" (69mm) AOC-5TG-14S 100BE Standard LP PCI-E x8 Intel® XL710-BM1 4 SFP+ (100b)port) 5.5" (150mm) x 2.73" (69mm) AOC-525G-02S 250BE Standard LP PCI-E x8 Mellanox® CX-4 LX 2 SFP28 (250b)port) 5.6" (142mm) x 2.713" (69mm) AOC-525G-02S 250BE Standard LP PCI-E x8 Broadcom® BCM57414 2 SFP28 (250b)port) 5.6" (142mm) x 2.713" (69mm) AOC-525G-02S 250BE Standard LP PCI-E x8 Intel® XL710-BM1 1 05FP2 (400b)port) 5.5" (150mm) x 2.713" (69mm) AOC-540G-1Q 400BE Standard LP PCI-E x8 Intel® XL710-BM1 1 05FP2 (400b)port) 5.5" (150mm) x 2.73" (69mm) AOC-540G-1Q 400BE Standard LP PCI-E x8 Intel® XL710-BM2 2 QSFP2 (400b)port) 5.5" (150mm) x 2.73" (69mm) AOC-540G-1Q 400BE Standard LP PCI-E x8 Intel® XL710-BM2 2 QSFP2 (400b)port) 5.5" (150mm) x 2.73" (69mm) AOC-540G-04C 100GBE Standard LP PCI-E x16 Mellanox® CX-4 EN 2 QSFP28 (1000b)port) 6.6" (158mm) x 2.73" (69mm) AOC-510G-0-b1C 100GBE Standard LP PCI-E x16 Mellanox® CX-4 EN 2 QSFP28 (1000b)port) 6.6" (158mm) x 2.73" (69mm) AOC-050P-12 GBE MicroLP PCI-E x8 Intel® X509M2 2 RA45 (10b)port) 4.45" (135mm) x 1.54" (39mm) AOC-CTG-12S 10GBE MicroLP PCI-E x8 Intel® 2599BES 2 SFP+ (100b)port) 4.88" (123mm) x 1.54" (39mm)	AOC-STGN-i2S	10GbE	Standard LP	PCI-E x8	Intel® 82599ES	2 SFP+ (10Gb/port)	4.0" (102mm) x 2.73" (69mm)	11.2
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AOC-325G-m2S 25GbE Standard LP PCI-E x8 Melianox® CX-4 LX 2 SFP28 (25Gbiport) 5.6" (142mm) x 2.713" (68mm) AOC-325G-b2S 25GbE Standard LP PCI-E x8 Broadcom® BCM57414 2 SFP28 (25Gbiport) 5.6" (142mm) x 2.713" (68mm) AOC-325G-b2S 25GbE Standard LP PCI-E x8 Intel® XXV710 2 SFP28 (25Gbiport) 6.1" (155mm) x 2.713" (68mm) AOC-340G-l1Q 40GbE Standard LP PCI-E x8 Intel® XX170-BM1 1 Q8FP4 (40Gbiport) 5.5" (150mm) x 2.73" (68mm) AOC-340G-l2Q 40GbE Standard LP PCI-E x8 Intel® X170-BM2 2 Q5FP4 (40Gbiport) 5.5" (150mm) x 2.73" (68mm) AOC-3100G-m2C 100GbE Standard LP PCI-E x16 Melianox® CX-4 EN 2 Q5FP28 (100Gbiport) 6.6" (158mm) x 2.73" (68mm) AOC-3100G-b1C 100GbE Standard LP PCI-E x16 Broadcom® BCM57454 2 Q5FP28 (100Gbiport) 6.6" (158mm) x 2.73" (68mm) AOC-310G-b1C 100GbE Standard LP PCI-E x16 Broadcom® BCM57454 2 Q5FP28 (100Gbiport) 6.6" (158mm) x 2.73" (68mm) AOC-CGP-12 GbE MicroLP PCI-E x1 Intel® 3259EN 1 SFP4 (10Gbiport) 4.88" (123mm) x 1.54" (38mm) AOC-CTG-12S 10GbE MicroLP PCI-E x8 Intel® 3259EN 1 SFP4 (10Gbiport) 4.88" (123mm) x 1.54" (38mm)	AOC-STG-b4S	10GbE	Standard LP	PCI-E x8	Broadcom® BCM57840S	4 SFP+ (10Gb/port)	5.4" (137mm) x 2.73" (69mm)	14
AOC-328G-b25 250E Standard LP PCI-E x8 Broadcom8 BCM57414 2 SFP28 [25Gbiport] 5.6" (142mm) x 2.715" (89mm) AOC-328G-b25 250G-B Standard LP PCI-E x8 Intel® XXV710 2 SFP28 [25Gbiport] 6.1" (155mm) x 2.73" (89mm) AOC-340G-l1Q 400E Standard LP PCI-E x8 Intel® XXT10-BM1 1 0.5FP (400E)port] 5.5" (150mm) x 2.73" (89mm) AOC-340G-l2Q 400E Standard LP PCI-E x8 Intel® XXT10-BM2 2 0.5FP28 (100E)port] 5.5" (150mm) x 2.73" (89mm) AOC-310G-m2C 100GbE Standard LP PCI-E x16 Melisnox® CX-4 EN 2 0.5FP28 (100G)port) 6.6" (158mm) x 2.73" (89mm) AOC-310G-b1C 100GbE Standard LP PCI-E x16 Broadcom8 BCM57454 2 0.5FP28 (100G)port) 6.5" (158mm) x 2.73" (89mm) AOC-GD-12 ObE MicroLP PCI-E x4 Intel® 1350 AM2 2 RJ45 (10G)port) 4.45" (113mm) x 1.54" (39mm) AOC-CTG-12S 10GbE MicroLP PCI-E x8 Intel® 2259BEN 1 SFP+ (100E)port) 4.85" (123mm) x 1.54" (39mm)	AOC-STG-i4S	10GbE	Standard LP	PCI-E x8	Intel® XL710-BM1	4 SFP+ (10Gb/port)	5.9" (150mm) x 2.73" (69mm)	8
AOC-525G-12S 25GbE Standard LP PCI-E x8 Intel® XXY710 2 SFP28 (25Gbiport) 6.1" (156mm) x 2.715" (58mm) AOC-540G-11Q 40GbE Standard LP PCI-E x8 Intel® XL710-8M1 1 QSFP+ (40Gbiport) 5.5" (156mm) x 2.73" (58mm) AOC-540G-12Q 40GbE Standard LP PCI-E x8 Intel® XL710-8M2 2 QSFP4 (40Gbiport) 5.5" (156mm) x 2.73" (58mm) AOC-510G-m2C 100GbE Standard LP PCI-E x16 Melianox® CX-4 EN 2 QSFP28 (100Gbiport) 6.6" (158mm) x 2.73" (58mm) AOC-510G-b1C 100GbE Standard LP PCI-E x16 Broadcom® BCM57454 2 QSFP28 (100Gbiport) 6.6" (158mm) x 2.73" (58mm) AOC-0GP-12 GDE MicroLP PCI-E x1 Intel® 1350 AM2 2 RA45 (10bjport) 4.45" (113mm) x 1.54" (38mm) AOC-CTG-12S 10GbE MicroLP PCI-E x8 Intel® 2559EN 1 SFP+ (10Gbiport) 4.88" (123mm) x 1.54" (38mm)	AOC-S25G-m2S	25GbE	Standard LP	PCI-E x8	Mellanox® CX-4 LX	2 SFP28 (25Gb/port)	5.6" (142mm) x 2.713" (69mm)	8.7
AOC-540G-1Q 400bE Standard LP PCI-E x8 Intel® XL710-BM1 1 QSFP+ (400biport) 5.9" (150mm) x 2.73" (59mm) AOC-540G-1Q 400bE Standard LP PCI-E x8 Intel® XL710-BM2 2 QSFP+ (400biport) 5.9" (150mm) x 2.73" (59mm) AOC-5100G-m2C 1000bE Standard LP PCI-E x16 Mellanox® CX-4 EN 2 QSFP28 (1000biport) 6.6" (158mm) x 2.73" (59mm) AOC-5100G-b1C 1000bE Standard LP PCI-E x16 Broadcom® BCM57454 2 QSFP28 (1000biport) 6.6" (158mm) x 2.73" (59mm) AOC-C50-12 GBE MicroLP PCI-E x1 Intel® 1350 AM2 2 RJ45 (10biport) 4.48" (133mm) x 1.54" (39mm) AOC-CTG-12 100bE MicroLP PCI-E x8 Intel® 2599EN 1 SFP+ (100biport) 4.88" (123mm) x 1.54" (39mm)	AOC-S25G-b2S	25GbE	Standard LP	PCI-E x8	Broadcom® BCM57414	2 SFP28 (25Gb/port)	5.6" (142mm) x 2.713" (69mm)	5.2
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AOC-S100G-b1C 100GbE Standard LP PCI-E x16 Broadcom® BCM57454 2 QSFP28 (100Gb/port) 6.6" (168mm) x 2.73" (69mm) AOC-CGP-12 GbE MicroLP PCI-E x4 Intel® 150 AM2 2 RJ45 (1Gb/port) 4.45" (113mm) x 1.54" (59mm) AOC-CTG-15 10GbE MicroLP PCI-E x8 Intel® 82599EN 1 SFP+ (10Gb/port) 4.85" (123mm) x 1.54" (59mm) AOC-CTG-12S 10GbE MicroLP PCI-E x8 Intel® 82599ES 2 SFP+ (10Gb/port) 4.85" (123mm) x 1.54" (39mm)	AOC-S40G-i2Q	40GbE	Standard LP	PCI-E x8	Intel® XL710-BM2	2 QSFP+ (40Gb/port)	5.9" (150mm) x 2.73" (69mm)	7
AOC-CGP-12 GBE MicroLP PCI-E x4 Intel® 1350 AM2 2 RJ45 ([Gblport] 4.45" (113mm) x 1.54" (38mm) AOC-CTG-115 10GBE MicroLP PCI-E x8 Intel® 82599EN 1 SFP+ (10Gblport) 4.85" (123mm) x 1.54" (38mm) AOC-CTG-12S 10GBE MicroLP PCI-E x8 Intel® 82599ES 2 SFP+ (10Gblport) 4.85" (123mm) x 1.54" (38mm)	AOC-S100G-m2C	100GbE	Standard LP	PCI-E x16	Mellanox® CX-4 EN	2 QSFP28 (100Gb/port)	6.6" (168mm) x 2.73" (69mm)	16.3
AOC-CTG-15 100bE MicroLP PCI-E x8 Intel® 82599EN 1 SFP+ (100biport) 4.85" (123mm) x 1.54" (39mm) AOC-CTG-12S 100bE MicroLP PCI-E x8 Intel® 82599ES 2 SFP+ (100biport) 4.85" (123mm) x 1.54" (39mm)	AOC-S100G-b1C	100GbE	Standard LP	PCI-E x16	Broadcom® BCM57454	2 QSFP28 (100Gb/port)	6.6" (168mm) x 2.73" (69mm)	17.8
AOC-CTG-/2S 10GbE MicroLP PCI-E x8 Intel® 82599ES 2 SFP+ (10Gb/port) 4.85" (123mm) x 1.54" (39mm)	AOC-CGP-i2	GbE	MicroLP	PCI-E x4	Intel® i350 AM2	2 RJ45 (1Gb/port)	4.45" (113mm) x 1.54" (39mm)	4
, , , , , , , , , , , , , , , , , , , ,	AOC-CTG-I1S	10GbE	MicroLP	PCI-E x8	Intel® 82599EN	1 SFP+ (10Gb/port)	4.85" (123mm) x 1.54" (39mm)	10
AOC-CTG-I2T 10GbE MicroLP PCI-E x8 Intel® X540-AT2 2 RJ45 (10GBase-T) 4.8" (123mm) x 2.75" (77mm)	AOC-CTG-i2S	10GbE	MicroLP	PCI-E x8	Intel® 82599ES	2 SFP+ (10Gb/port)	4.85" (123mm) x 1.54" (39mm)	11
	AOC-CTG-I2T	10GbE	MicroLP	PCI-E x8	Intel® X540-AT2	2 RJ45 (10GBase-T)	4.8" (123mm) x 2.75" (77mm)	13
AOC-CTGS-I2T 10GbE MicroLP PCI-E x4 Intel® X550-AT2 2 RJ45 (10GBase-T) 4.45" (113mm) x 1.54" (39mm)	AOC-CTGS-I2T	10GbE	MicroLP	PCI-E x4	Intel® X550-AT2	2 RJ45 (10GBase-T)	4.45" (113mm) x 1.54" (39mm)	12
AOC-C25G-m1S 25GbE MicroLP PCI-E x8 Melianox® CX-4 Lx EN 1 SFP28 (28Gblport) 4.45" (113mm) x 1.54" (39mm)	AOC-C25G-m1S	25GbE	MicroLP	PCI-E x8	Mellanox® CX-4 Lx EN	1 SFP28 (28Gb/port)	4.45" (113mm) x 1.54" (39mm)	8.5

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Chapter 1

Overview

1-1 Overview

Congratulations on purchasing your add-on card from an acknowledged leader in the industry. Supermicro products are designed with the utmost attention to detail to provide you with the highest standards in quality and performance. For product support and updates, please refer to our website at http://www.supermicro.com/products/nfo/networking.cfm#adapter.

1-2 Key Features

The key features of this add-on card include:

- Supermicro Super I/O Module (SIOM) Form Factor
- Intel® XXV710 25GbE controller, dual SFP28 connectors
- Network Virtualization: VXLAN and NVGRE
- Intel® Ethernet Flow Director for hardware-based application and traffic steering
- Data Plane Development Kit (DPDK) optimized for efficient packet-processing
- NC-SI for Remote Management
- Asset Management Features
- RoHS compliant 6/6



1-3 Technical Specifications

General

- Super I/O Module (SIOM) Form Factor
- Intel® XXV710 25GbE controller
- Dual SFP28 connectors with speed up to 25Gbps per port
- Time Sync (IEEE1588)

I/O Features

- Intel® Ethernet Flow Director
- Intel® XXV710 25GbE controller
- MSI-X support
- Multiple queues: 1,536 Tx and Rx queues per port
- Tx/Rx IP, SCTP, TCP, and UDP checksum offloading (IPv4, IPv6) capabilities

Virtualization Features

- Next-Generation VMDq with up to 256 VMDq VMs supported
- SR-IOV
- Virtual Machine Load Balancing (VMLB)
- VLAN support
- VXLAN and NVGRE support

Management Features

- Preboot eXecution Environment (PXE) support
- iSCSI boot
- Asset Management features with thermal sensor support

· NC-SI for remote management

Advanced Software Features

- Teaming support
- IEEE 802.3ad (link aggregation control protocol)
- IEEE 802.1Q VLANs
- IEEE 802.3 2005 flow control support
- IEEE 802.1p
- · Receive Side Scaling

Operation System Support

- Windows Server 2008 R2 / 2012 / 2012 R2 / 2016
- Linux Stable Kernel version 2.6/4.x
- Linux RHEL 6.9 / 7.3
- Linux SLES 11 SP4 / 12 SP1
- FreeBSD 10 3 / 11
- UEFI 2.1 / 2.3 / 2.4
- VMware vSphere 5.1 / 5.5
- VMware ESXi 6.0 U3 / 6.0

Power Consumption

Maximum 11.8W

Operating Conditions

Operating temperature: 0°C to 55°C (32°F to 131°F)

- Storage temperature: -40°C to 70°C (-40°F to 158°F)
- Storage humidity: 90% non-condensing relative humidity at 35°C

Physical Dimensions

• Card PCB dimensions: 92mm (3.62in) x 87.1mm (3.43in) (W x D)

Supported Platforms

- Supermicro® motherboards with Super I/O Module slot built-in
- Supermicro® server systems with Super I/O Module slot built-in (see SIOM Compatibility Matrix online at http://www.supermicro.com/support/resources/AOC/AOC_Compatibility_SIOM.cfm)
 - Note: This product is sold only as part of an integrated solution with Supermicro server systems.

1-4 Available SKUs

SKUs	Bracket Included	Description
AOC-M25G-i2S	BKT-0144L	2-port 25 Gigabit Ethernet Adapter with a swappable bracket for 2U+ chassis (Storage Servers)
AOC-M25G-i2SM	BKT-0143L	2-port 25 Gigabit Ethernet Adapter with an internal bracket for 1U chassis (Twin Servers)

1-5 Optional Parts List

Туре	Part Number	Description
SFP28 Copper Cable	CBL-NTWK-0944-MS28C05M	0.5m 25GbE SFP28 to SFP28, Passive
SFP28 Copper Cable	CBL-NTWK-0944-MS28C10M	1m 25GbE SFP28 to SFP28, Passive
SFP28 Copper Cable	CBL-NTWK-0944-MS28C15M	1.5m 25GbE SFP28 to SFP28, Passive
SFP28 Copper Cable	CBL-NTWK-0944-MS28C20M	2m 25GbE SFP28 to SFP28, Passive
SFP28 Copper Cable	CBL-NTWK-0944-MS28C25M	2.5m 25GbE SFP28 to SFP28, Passive
SFP28 Copper Cable	CBL-NTWK-0944-MS28C30M	3m 25GbE SFP28 to SFP28, Passive
SFP28 Transceiver Module	AOM-SFP28-25GbE-SR-1-MLN	SFP28 transceiver module 25G, 850nm, MMF, LC
SFP28 Transceiver Module	AOM-SFP28-25GbE-SR-1-MLN	SFP28 transceiver module 25G, MMF, LC (Intel)

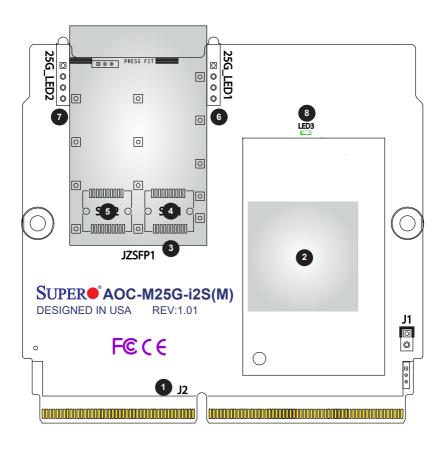
Chapter 2

Hardware Components

2-1 Add-On Card Image and Layout



AOC-M25G-i2S(M) View



AOC-M25G-i2S(M) Layout

2-2 Major Components

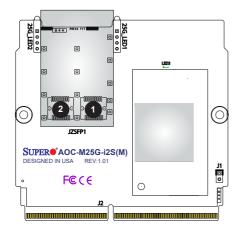
The following components are on the AOC-M25G-i2S(M):

	AOC-M25G-i2S(M) Major Components				
No	Component Name Definition				
1	J2	PCIE 3.0 x16			
2	Intel® XXV710	25GbE Ethernet controller			
3	Connector Cage	Connector Cage			
4	SFP1	SFP28 Port1			
5	SFP2	SFP28 Port2			
6	LED1	Port 1 LED Indicators			
7	LED2	Port 2 LED Indicators			
8	LED3	Thermal Alert LED			

2-3 SFP28 Ethernet Connections

SFP28 (SFP1/SFP2) Connectors

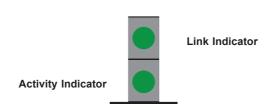
Two small form-factor pluggable (SFP28) optical transceiver connectors (SFP1 and SFP2) are located on the add-on card. These SFP28 ports provide Ethernet connections of up to 25GbE. See the layout next page for the locations.



- 1. SFP28 Connector 1
- 2. SFP28 Connector 2

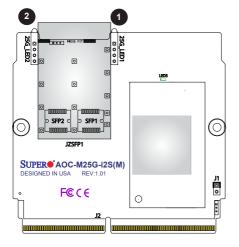
SFP28 (SFP1/SFP2) Link/Activity LED Indicators

Two SFP28 Activity/Link LED indicators are located at LED1 and LED2 on the addon card. LED1 is used for the SFP28 Port1 connector, and LED2, for the SFP28 Port2 connector. The SIOM LED1 and LED2 are dual bi-level LEDs: the top ones are link LEDs; the bottom ones are activity LEDs. See the tables below for the LEDs' states and functions



LAN Port LED Indicators Assignment/State			
LED LAN Port Assigned			
LED1	SFP28 Port 1 Active		
LED2	SFP28 Port 2 Active		
Green	SFP28 LAN Port Active		

LAN Port Link LEDs LED State		
LED Color Definition		
Amber	10 Gbps	
Green 25 Gbps		



- 1. SFP28 Port LED Indicator 1
- 2. SFP28 Port LED Indicator 2

Chapter 3

Installation

3-1 Static-Sensitive Devices

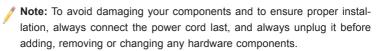
Electrostatic Discharge (ESD) can damage electronic components. To avoid damaging your add-on card, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD.

Precautions

- Use a grounded wrist strap designed to prevent static discharge.
- Touch a grounded metal object before removing the add-on card from the antistatic bag.
- Handle the add-on card by its edges only; do not touch its components.
- Put the add-on card back into the antistatic bags when not in use.
- For grounding purposes, make sure that your system chassis provides excellent conductivity between the power supply, the case, the mounting fasteners, and the add-on card.

Unpacking

The add-on card is shipped in antistatic packaging to avoid static damage. When unpacking your component or system, make sure that you are static protected.



3-2 Before Installation

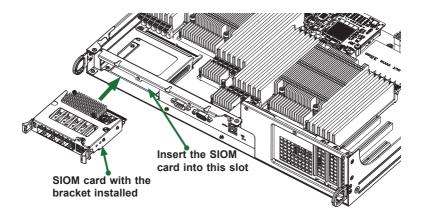
Before you install the add-on card, follow the instructions below.

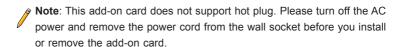
- 1. Power down the system.
- 2. Unplug the power cord.
- Use industry-standard anti-static equipment such as gloves or a wrist strap and follow the precautions on previous page to avoid damage caused by ESD.
- Familiarize yourself with the server, motherboard, and/or chassis documentation.
- 5. Confirm that your operating system includes the latest updates and hotfixes.

3-3 Installing the Add-on Card

Follow the steps below to install the add-on card into your system.

- 1. Remove the server cover, if any, and set aside any screws for later use.
- Remove the add-on card slot cover. If the slot cover has a screw, place it aside for later use.
- Position the add-on card in front of the SIOM slot and gently push in both sides of the card until it slides into the slot.
- Secure the add-on card to the chassis, reusing the screws that you previously removed as needed.

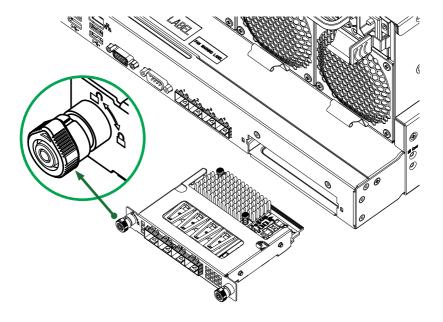




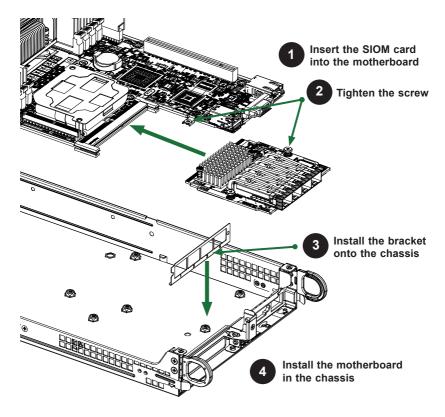
- 5. Attach any necessary external cables to the add-on card.
- 6. Replace the system cover.
- 7. Plug in the power cord and power up the system.

Follow the steps below to install the add-on card into your system that supports a swappable bracket. The add-on card must be installed in the swappable bracket before it can be installed in the your system.

- 1. Install the add-on card into the swappable bracket.
- Position the add-on card in front of the SIOM slot and gently push in both sides of the card until it slides into the slot.
- 3. Once the card is in the slot, push both knobs in and turn to the right to lock the card in the system. The left knob has the unlock/lock symbols next to it. To ensure that the add-on card is locked, make sure that the knob position indicator is pointing to the lock symbol as shown in the drawing below.



Follow this step to install the add-on card if your system *does not* support a swap-pable bracket. Insert the SIOM card in the motherboard and then install the motherboard in the chassis. An internal bracket comes with the AOC-M25G-i2SM controller which needs to be installed into the chassis before the motherboard is inserted.



Note: It is recommended that the SIOM card installation (as illustrated above) be completed by a system integrator or the manufacturer.

3-4 Installing Windows Drivers (for Intel® Fortville-25 XXV710)

Follow the steps below to install the drivers for Windows. Download the drivers from Intel Download Center or from the Supermicro FTP site at ftp://ftp.supermicro.com/Networking_Drivers/.



- 1 Run the CDR-NIC
- 2. When the SUPERMICRO window appears, click on the computer icon next to the product model.
 - Note: If the FOUND NEW HARDWARE WIZARD screen displays on your system, click CANCEL.
- 3. Click on INSTALL DRIVERS AND SOFTWARE.
- 4. Follow the prompts to complete the installation.

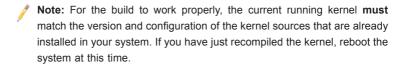
3-5 Installing Linux Drivers (for Intel® Fortville-25 XXV710)

Follow the steps below to install the driver to a Linux system.

1. Build a binary RPM package by running this command:

```
rpmbuild -tb <filename.tar.gz>
```

Be sure to replace <filename.tar.gz> in the above step (#1) with the specific filename of the driver.



3. Move the base driver tar file to the directory of your choice. For example:

```
/home/username/i40e
```

or

```
/usr/local/src/i40e
```

4. Untar/unzip archive, where <x.x.x> is the version number for the driver tar file:

```
tar zxf i40e-x.x.x.tar.gz
```

Change to the driver src directory, where <x.x.x> is the version number for the driver tar:

```
cd i40e-x.x.x/src/
```

6. Compile the driver module:

```
make install
```

Install the binary as:

```
/usr/local/src/i40e
```

7. Load the module. For kernel 2.6.x, use the modprobe command:

```
modprobe i40e <parameter>=<value>
```

For 2.6 kernels, the 'insmod' command can be used if the full path to the driver module is specified. For example:

```
insmod /lib/modules/[KERNEL_VERSION]/kernel/drivers/
net/ethernet/intel/i40e.[k]o
```

In addition, when using 2.6-based kernels, make sure that older i40e drivers are removed from the kernel before loading the new module. To do this, use:

```
rmmod i40e; modprobe i40e
```

8. Assign an IP address to the interface by entering the following command where "x" at the end of "ethx" is the interface number:

```
ifconfig ethx <IP address> netmask <netmask>
```

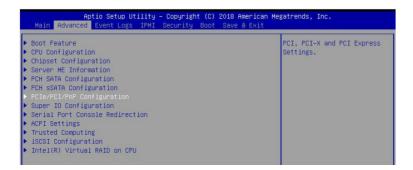
9. To verify that the interface is working properly, use the following command where "<IP_address>" is the IP address of the machine on the same subnet as the interface that is being tested:

```
ping <IP address>
```

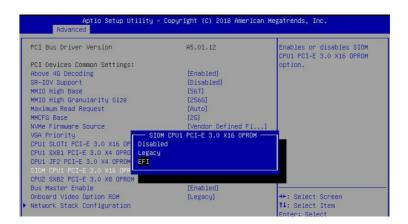
3-6 Configuring EFI Mode from System Setup

During the host boot process, EFI mode configuration can be modified through BIOS setup.

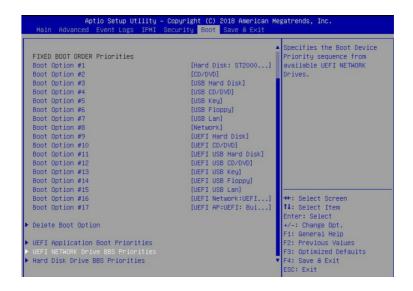
 From the top of the tool bar, select Advanced to enter the submenu. Choose PCIe/PCI/PnP Configuration and press <Enter> to see the contents of PCI devices settings.



2. When the screen as shown below displays, use the arrow keys to select SIOM CPU1 PCI-E 3.0 x16 OPROM and press <Enter>. Use this feature to select which firmware type to be loaded for the add-on card in this slot. The options are Disabled, Legacy, and EFI. Select EFI and press <Enter>. To save the setting, select Save Changes and Reset from the Save & Exit menu and press <Enter>.



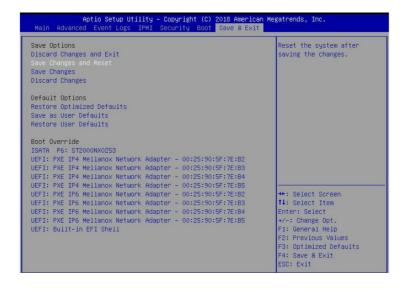
To see the available boot options of the UEFI Network Drive, select Boot to enter the submenu. When the following screen appears, use the arrow keys to select UEFI NETWORK Drive BBS Priorities and press <Enter>.



4. To examine the details of each boot option, select the corresponding numbers of the desired boot options. For example, when Boot Option #1 is selected, the MAC address of the Boot Option #1 page will appear.

```
Aptio Setup Utility - Copyright (C) 2018 American Megatrends, Inc.
                                                               Boot
                                                                                                 Sets the system boot order
Boot Option #2
                                                            [UEFI: PXE IP4 Mel...]
Boot Option #3
                                                            [UEFI: PXE IP4 Mel...]
                                                            [UEFI: PXE IP4 Mel...]
Boot Option #4
Boot Option #5
                                                            [UEFI: PXE IP6 Mel...]
Boot Option #6
                                                            [UEFI: PXE IP6 Mel...]
Boot Option #7
                                                             [UEFI: PXE IP6 Mel...
                                                       — Boot Option #1 —
       UEFI: PXE IP4 Mellanox Network Adapter - 00:25:90:5F:7E:82(MAC,Address:0025905f7eb2)
      UEFI: PXE IP4 Mellanox Network Adapter = 00:25:90:5F:7E:83(MAC,Address:0025905f7eb3)
UEFI: PXE IP4 Mellanox Network Adapter = 00:25:90:5F:7E:84(MAC,Address:0025905f7eb4)
UEFI: PXE IP4 Mellanox Network Adapter = 00:25:90:5F:7E:85(MAC,Address:0025905f7eb5)
UEFI: PXE IP4 Mellanox Network Adapter = 00:25:90:5F:7E:82(MAC,Address:0025905f7eb5)
UEFI: PXE IP6 Mellanox Network Adapter = 00:25:90:5F:7E:82(MAC,Address:0025905f7eb2)
       Disabled
```

After the system configuration is completed, select Save Changes and Reset from the Save & Exit menu and press <Enter> to save the changes made.



Note: All screenshots shown are for illustration purpose only and may not match the screens that you see on your system.

