AOC-S100GT2-B2C

USER'S MANUAL

Revision 1.0

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Manual Revision 1.0

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Preface

About This Manual

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-S100GT2-B2C add-on card.

About This Add-On Card

The AOC-S100GT2-B2C is based on the Broadcom® BCM57608 Ethernet Controller and offers a 2x 100G-capable network interface that delivers high-performance networking while maintaining low power consumption and thermal efficiency. The BCM57608 series supports the fourth generation of RDMA over Converged Ethernet (RoCE) with hardware-based congestion control. This technology ensures low latency and simplifies RoCE deployment at scale. Furthermore, the BCM57608 features the TruFlow™ engine, a hardware acceleration engine with enhanced programmability.

This engine allows for rapid implementation of new flow types, increasing virtual machine density, and improving application performance. The BCM57608 supports industry-leading security features, including Broadcom's HW Secure Boot (RoT) and Attestation support. These security measures enable the creation of secure server platforms. In summary, the BCM57608 series Ethernet Controllers are versatile and can be used in a wide range of hardware designs, including cloud and enterprise data center servers, AI and ML clusters, NVMe storage disaggregation, 5G Wireless RAN, Network Function Virtualization (NFV), mobile edge computing, and HPC environments.

An Important Note to the User

All graphic images and layout drawings shown in this user's guide are based upon the latest PCB revision available at the time of publishing this user's guide. The add-on 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 to the manufacturer, the RMA number should be prominently displayed on the outside of the shipping carton and 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, RMA authorizations may be requested online at https://www.supermicro.com/en/support/rma.

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

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

Conventions Used in the Manual

Special attention should be given to the following symbols for proper installation and to prevent damage done to the components or injury.

Warning! Indicates important information given to prevent equipment/property damage or personal injury.

Warning! Indicates high voltage may be encountered while performing a procedure.

Important: Important information given to ensure proper system installation or to relay safety precautions.

Note: Additional information given to differentiate various models or to provide information for proper system setup.

Important Links

For your system to work properly, follow the links to download all necessary drivers/utilities and the user's manual for your server.

- Supermicro product manuals: http://www.supermicro.com/support/manuals/
- Product drivers and utilities: https://www.supermicro.com/wdl/driver
- Product safety info: https://www.supermicro.com/en/about/policies/safety-information
- A secure data deletion tool designed to fully erase all data from storage devices can be found at our website: https://www.supermicro.com/about/policies/disclaimer.cfm?url=/wdl/utility/Lot9_Secure_Data_Deletion_Utility/
- If you have any questions, contact our support team at: support@supermicro.com
- Frequently Asked Questions: https://www.supermicro.com/FAQ/index.php
- If you have any feedback on Supermicro product manuals, contact our writing team at: Techwriterteam@supermicro.com

This manual may be periodically updated without notice. Check the Supermicro website for possible updates to the manual revision level.

Naming Convention

Character	Representation	Options
1st	Product Family	AOC: Add On Card
2nd	Form Factor	S: Standard PCIe, P: Proprietary, C: MicroLP, M: Super IO Module (SIOM), MH: SIOM Hybrid A: Advanced IO Module (AIOM), AH: AIOM Hybrid, SD: PCIe DPU
3rd	Product Type/Speed	G: GbE (1 Gb/s), TG: 10 GbE (10 Gb/s), 25G: 25 GbE (25 Gb/s), 40G: 40 GbE (40 Gb/s), 100G: 100 GbE (10 0Gb/s), 200G: 200 GbE (200 Gb/s), 400G: 400 GbE (400 Gb/s), 800G: 800 GbE (800 Gb/s)
4th	Chipset Model (Optional)	N: (82599), P: (i350), S: (X550), F: (XL710/X710), C: (E810 25/100G) or (X710-AT2/TM4 10G), L: (E610), CN: (E835), 6: ConnectX-6, 7: ConnectX-7, 8: ConnectX-8, T2: BCM57608
5th	Chipset Manufacturer	i or I: Intel, b or B: Broadcom, m or M: Mellanox, N: NVIDIA
6th	Number of Ports	1: 1 port, 2: 2 ports, 4: 4 ports
7th	Connector Type (Optional)	S: SFP/SFP+/SFP28, T: 10GBase-T, Q: QSFP+, C: QSFP28/QSFP56/QSFP112/QSFP-DD, O: OSFP

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Table of Contents

Chapter 1

Introduction

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 of quality and performance. For product support and updates, refer to our website at https://www.supermicro.com/en/products/networking/adapters.

1.2 Key Features

The key features of this add-on card include the following:

- Broadcom BCM57608 2x 100 GbE controller
- PCIe Gen 5.0 x16 low-profile standard form factor
- Dual QSFP112 connectors
- Support for 100/50/25 GbE
- RDMA over Converged Ethernet (RoCEv2)
- VXLAN, NVGRE, and Geneve
- NIC Partitioning (NPAR)
- Broadcom TruFlow flow processing engine
- Asset Management Features with thermal sensor
- NC-SI for Remote Management (not supported by default)
- RoHS compliant 6/6

1.3 Specifications

Networking Interface

- Eight SerDes capable of 100/50G PAM4 and 25G NRZ
- QSFP112

Note: QSFP112 connector supports backward compatibility with QSFP28 and QSFP56 modules operating at 100 GbE and below.

- 2x 100/50/25 GbE
- Auto-negotiation with auto-detect
- IEEE-1588v2
- IEEE 802.3x flow control
- IEEE 802.3ad link aggregation
- Virtual LANs 802.1q VLAN tagging
- Configurable flow acceleration
- UEFI and iSCSI boot

Platform Security Features

- Attestation (SPDM)
- HW Secure Boot (RoT)

Manageability Features

- Network Controller Sideband Interface (NC-SI)
- Platform Level Data Model (PLDM) for monitoring and firmware update

Stateless Offload Features

- TCP, UDP, IPv4, IPv6 checksum offload
- IPv4 and IPv6 offloads
- Receive Segment Coalescing (RSC)
- TCP Segmentation Offload (TSO)
- Large Receive Offload (LRO)
- Large Send Offload (LSO)
- Receive Side Scaling (RSS)
- Transmit Side Scaling (TSS)

NIC Partitioning (NPAR)

- 16 Physical Functions (PFs)
- QoS per partition
- Partitioning control through sideband communication
- Up to 64 MAC/VLAN filters per partition
- Per partition statistics support
- Stateless offloads configuration per partition
- VEB/VEPA support

Virtualization Features

- NetQueue, VMQueue, and Multi-Queue
- SR-IOV with up to 128 Virtual Functions (VFs)
- VXLAN, NVGRE, GRE, Geneve, and IP-in-IP
- Edge Virtual Bridging (EVB)

RDMA over Converged Ethernet (RoCE)

- RoCEv1 and RoCEv2
- Data Center Bridging with RoCE

TruFlow Flow Processing

- Exact/Wildcard Match Flow Lookup
- VLAN insertion/deletion
- NAT/NAPT/Mirroring

Data Center Bridging

- Priority-based Flow Control (PFC; IEEE 802.1Qbb)
- Enhanced Transmission Selection (ETS; IEEE 802.1Qau)
- Quantized Congestion Notification (QCN; IEEE 802.1Qau)
- Data Center Bridging Capability eXchange (DCBX; IEEE 802.1Qaz)
- Eight traffic classes per port; fully DCB compliant per 802.1Qbb

Power Savings

- ACPI compliant power management
- Pass-through Energy Efficient Ethernet (IEEE 802.3az-2010)

Power Consumption

- Typical power consumption: 19 W
- Maximum power consumption: 25.4 W (at 100°C/212°F)

Environmental Conditions

- Storage temperature: -40°C to 70°C (-40°F to 158°F)
- Storage humidity: 90% non-condensing relative humidity at 35°C (95°F)

Physical Dimensions

- Card PCB dimensions: 2.713" x 6.6" (68.91 mm x 167.64 mm) (W x L)

Note: This product is sold only as part of an integrated solution with Supermicro server systems.

Chapter 2

Hardware Components

2.1 Add-On Card Image and Layout

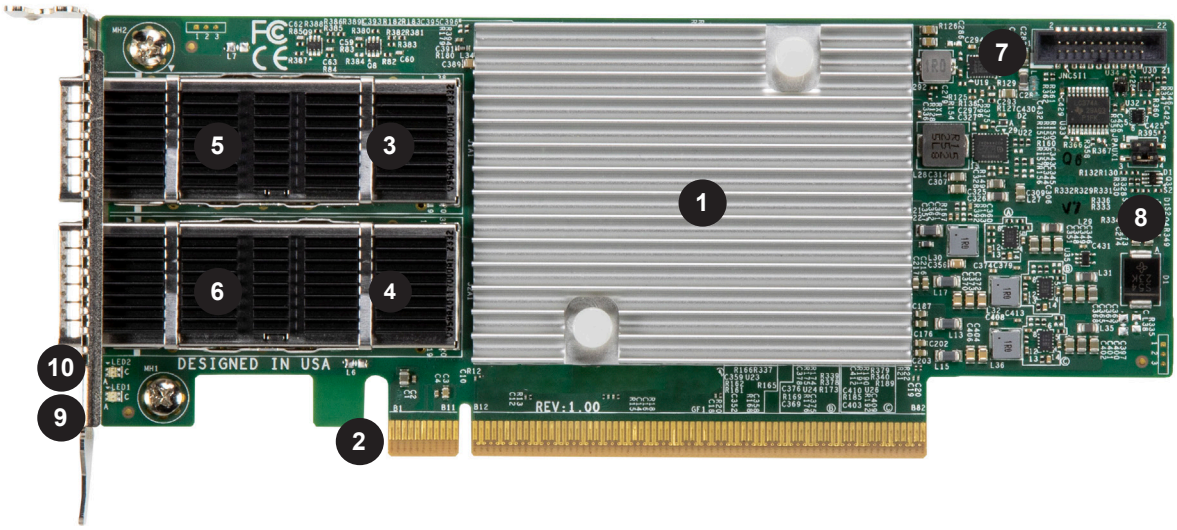


Figure 2-1: AOC-S100GT2-B2C View

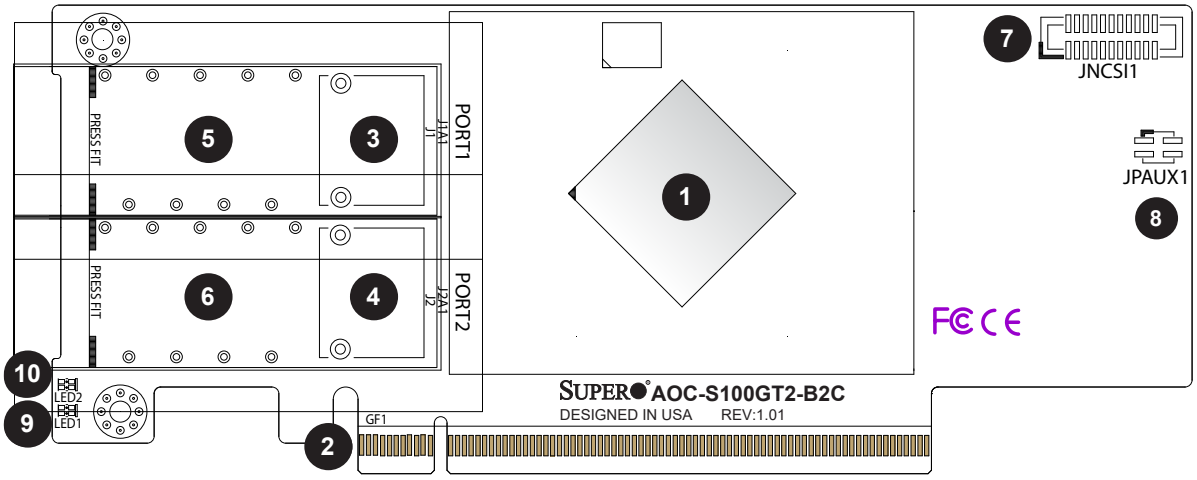


Figure 2-2: AOC-S100GT2-B2C Layout

2.2 Major Components

The following major components are installed on AOC-S100GT2-B2C:

AOC-S100GT2-B2C Major Components		
No	**Component Name**	**Definition**
1	Broadcom BCM57608	Ethernet 100 GbE controller
2	GF1	PCIe Gen 5.0 x16 connector
3	J1	Connector Cage
4	J2	Connector Cage
5	J1A1	Quad Small Form-Factor Pluggable 112 (QSFP112) Connector Port 1
6	J2A1	Quad Small Form-Factor Pluggable 112 (QSFP112) Connector Port 2
7	JNCSI1	NC-SI Header
8	JPAUX1	1–2: Enable AUX Power
		3–4: Disable AUX Power (default)
9	LED1	QSFP112 Port LED 1
10	LED2	QSFP112 Port LED 2

2.3 QSFP112 Ethernet Connections

QSFP112 Ports

Two Quad Small Form-Factor Pluggable 112 (QSFP112) connectors are located at J1 and J2 on the add-on card. The QSFP112 ports operate at up to 100 Gb/s. Plug the Direct Attached Copper (DAC) cable into the QSFP112 ports for network connections.

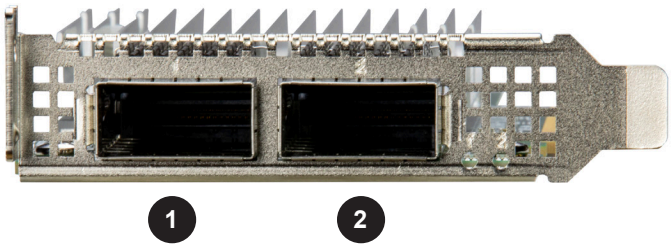
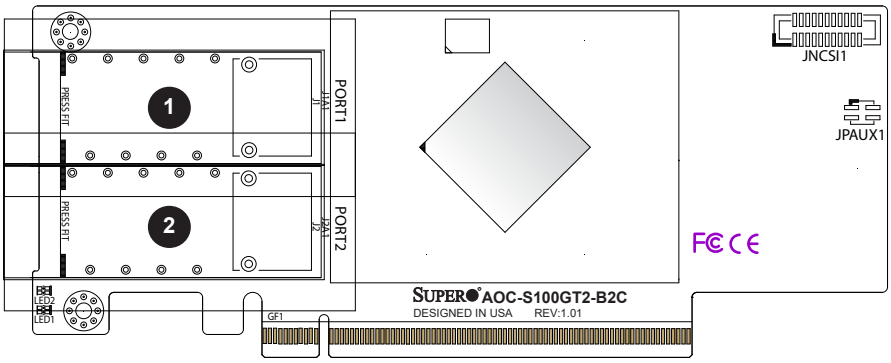


Figure 2-3: AOC-S100GT2-B2C Side View of Port Locations

1. QSFP112 Port 1
2. QSFP112 Port 2



QSFP112 LEDs

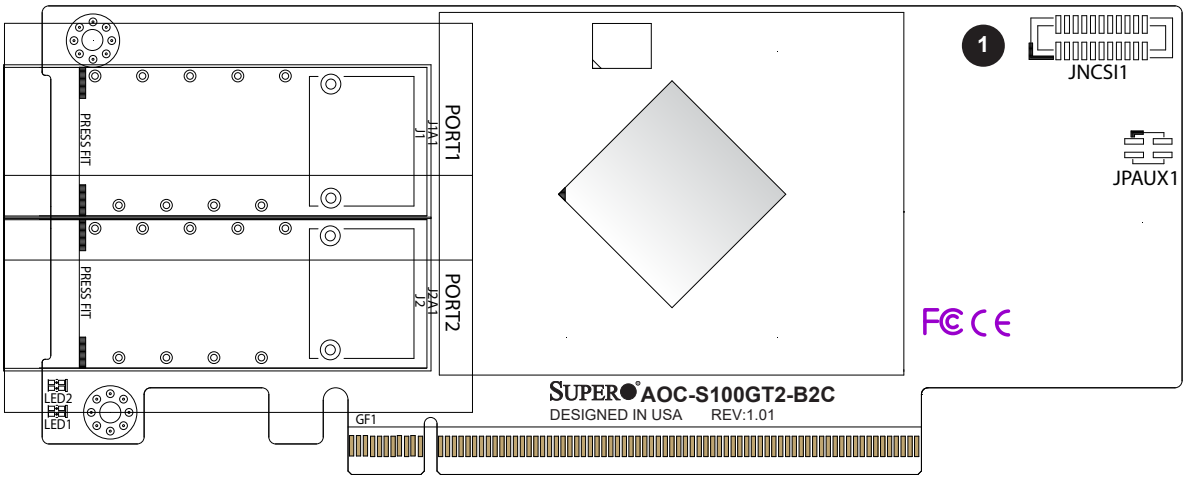
There are two LEDs (LED1 and LED2) located below the QSFP112 connectors to indicate the link speed and activity of each port. The activity LED will blink when there is activity, but the color will be either green or amber to match the indicated link speed.

QSFP112 Port LEDs		
LED	**Color**	**Definition**
Activity	Blinking	Activity
Link	Amber	< 100 Gbps Link Speed
	Green	100 Gbps Link Speed

2.4 NC-SI Header

A Network-Controller Sideband Interface (NC-SI) header is located at JNCSI1 on the add-on card. Connect an appropriate cable from this header to a motherboard to provide the out-of-band (sideband) connection between the onboard Baseboard Management Controller (BMC) and a Network Interface Controller (NIC) for remote management. For the network sideband interface to work properly, you will need to use a motherboard that supports NC-SI and also need to have a special cable. Contact Supermicro at www.supermicro.com to purchase the cable for this header.

1. JNCSI1



2.5 Jumper Settings

Explanation of Jumpers

To modify the operation of the motherboard, jumpers can be used to choose between optional settings. Jumpers create shorts between two pins to change the function of the connector. Pin 1 is identified with a square solder pad on the printed circuit board.

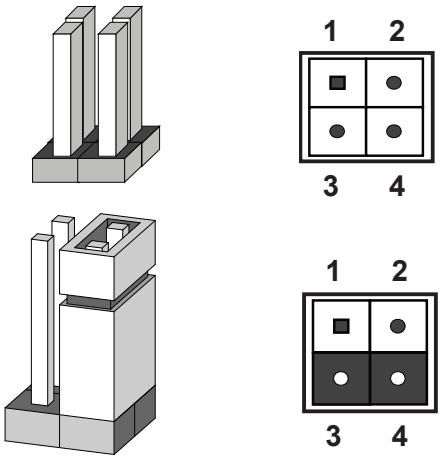


Figure 2-4: Four-Pin Setting

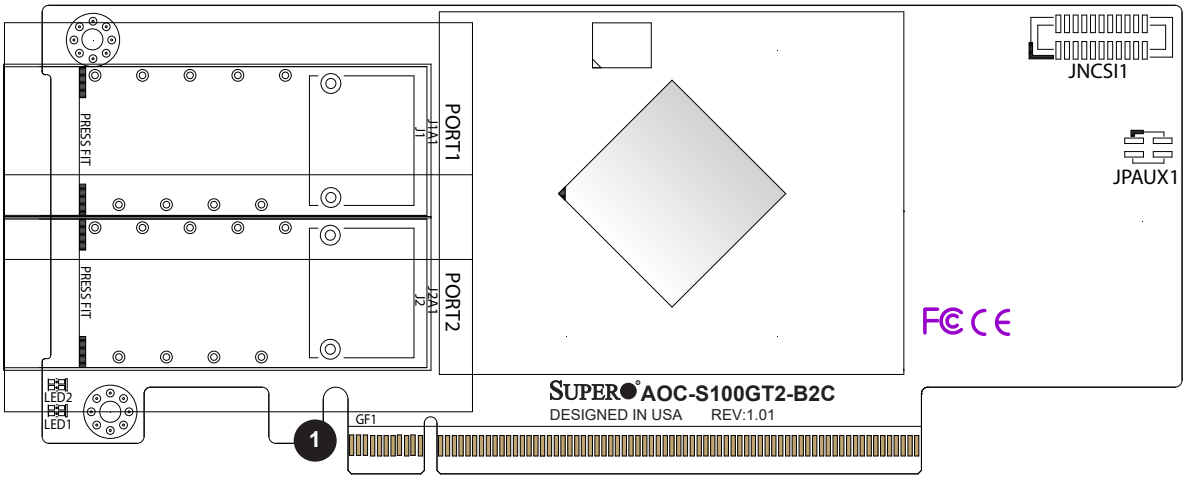
AOC JPAUX1 set to Disabled	**When the System/Motherboard Goes Into Standby Mode**		
	IPMI Support	**FailOver Support**	**WoL Support**
	No	No	No
	When the System/Motherboard Is NOT in Standby Mode		
	IPMI Support	**FailOver Support**	**WoL Support**
	Yes	Yes	No
AOC JPAUX1 set to Enabled	**When the System/Motherboard Goes Into Standby Mode**		
	IPMI Support	**FailOver Support**	**WoL Support**
	Yes	Yes	No
	When the System/Motherboard Is NOT in Standby Mode		
	IPMI Support	**FailOver Support**	**WoL Support**
	Yes	Yes	No

JPAUX1 for Standby Power	Function	Notes
Disable *No standby power to AOC NIC*	Disable jumper to disconnect the standby power	Default
Enable *Standby power to AOC NIC*	Enable jumper to connect standby power to AOC NIC	Consult Supermicro before enabling it.

2.6 PCIe 5.0 x16 Connector

A PCIe 5.0 x16 connector is located at GF1 on the add-on card. Insert this connector into a PCIe slot on a motherboard to use this add-on card.

1. PCIe 5.0 x16 connector



Chapter 3

Installation

Your system came with the AOC-S100GT2-B2C add-on card, which is designed as a part of an integrated solution. We do not recommend that any part of your system components be removed and reinstalled. However, if you do need to remove or reinstall a system component, including this add-on card, follow the instructions to ensure proper system setup. Also, be sure to remove the power cord first before adding, removing, or changing any hardware components to avoid damaging the system or components.

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 or peripheral chips.
- 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 you are static protected.

Note: To avoid damaging your components and to ensure proper installation, always connect the power cord last, and always unplug it before adding, removing, or changing any hardware components.

3.2 Before Installation

To install the add-on card properly, be sure to take the following steps:

1. Power down the system.
2. Remove the power cord from the wall socket.
3. Use industry-standard antistatic equipment (such as gloves or wrist strap) and follow the instructions listed on page 20 to avoid damage caused by ESD.
4. Familiarize yourself with the server, motherboard, and/or chassis documentation.
5. Confirm that your operating system includes the latest updates and hot fixes.

3.3 Installing the Add-on Card

Follow the instructions to install an add-on card into your system. (If the system is fixed onto a rack, the removal of the server top cover is not required. If the system is not anchored to a fixed structure, it is recommended to remove the system top cover for ease of installation.)

1. Remove the server cover and, if necessary, set aside any screws for later use.
2. Remove the add-on card slot cover. If the case requires a screw, place the screw aside for later use.
3. Position the add-on card in the slot directly over the connector on the motherboard and gently push down on both sides of the card until it slides into the PCI connector.
4. Secure the add-on card/motherboard to the chassis. If required, use the screw that you had previously removed.
5. Attach any necessary external cables to the add-on card.
6. Replace the chassis cover.
7. Plug the power cord into the wall socket, and power up the system.

3.4 Installing the Drivers (for Broadcom BCM57608)

To install drivers for the AOC-S100GT2-B2C add-on card for either Linux or Windows, follow the instructions.

Before Installing the Drivers for the Linux Operating System

Infiniband-diags is a set of utilities designed to help configure, debug, and maintain infiniband fabrics. Installing them from the Linux library is necessary prior to driver installation. To do so, first download the following libraries:

```
yum -y install libibverbs* infiniband-diags perftest qperf librd-
macm-utils rdma-core-devel

yum -y install groupinstall "InfiniBand Support"
```

Installing the 100G Drivers for the Linux Operating System

Follow the instructions to install the drivers on the Linux operating system:

1. Download the Linux driver package file: netxtreme-bnxt_en-<ver>.tar.gz.

   Note: This driver can be found on either the Supermicro website or by going to the Broadcom website.

2. Install the driver by entering the following commands

```
tar xvzf netxtreme-bnxt_en-<ver>.tar.gz

cd netxtreme-bnxt_en-<ver>

make

make install
```

RDMA over Converged Ethernet (RoCE) is a network protocol that allows remote direct memory access (RDMA) over an Ethernet network. This feature is optional, but if you would like to install it with RoCE, take the following steps:

1. Download the Linux driver package file: libbnxt_re-<ver>.tar.gz.

   Note: This driver can be found on either the Supermicro website or by going to the Broadcom website.

2. Install the library by entering the following commands:

```
tar xvzf libbnxt_re-<ver>.tar.gz
cd libbnxt_re-<ver>
./configure
make
make install
cp bnxt_re.driver /etc/libibverbs.d
echo "/usr/local/lib">>/etc/ld.so.conf
ldconfig -v
```

Installing the 100G Drivers for the Windows Operating System

Follow the instructions to install the drivers on the Windows operating system:

1. From the FTP site, go to the following Broadcom directory.
2. Choose the desired Windows driver package folder.
3. As the drivers are in .inf format, you can install the driver from the Device Manager.

Chapter 4

Breakout Port Configuration

The breakout port on AOC-S100GT2-B2C is used with a split cable to divide one port into two or four lower speed ports (e.g., 1 x 200G to 2 x 100G). You can configure the breakout port operation mode through either BIOS HII or Linux. Use the up arrow and down arrow keys to scroll and highlight your chosen option, then press **<Enter>** to select.

Port Operation Mode States				
Ethernet Adapters	**Physical Port Configuration**	**Disable Port 2**	**Two Port Breakout — "1 port to 2"**	**Four Port Breakout — "1 port to 4"**
AOC-S100GT2-B2C (dual-port, 100G Adapter)	Default 2 x 100G	• 1 x 200G on first physical port • Second port is disabled	• 2 x 100G on first physical port • Second port is disabled	• 4 x 25G/50G on first physical port • Second port is disabled

4.1 BIOS HII Port Configuration

Take the following steps to adjust the breakout port configuration in the **BIOS HII** menu:

1. Navigate to the **Advanced** tab.
2. Select the available HII network port.

Figure 4-1: Selecting the First HII Network Port

3. Navigate to and select **Device Configuration Menu.**

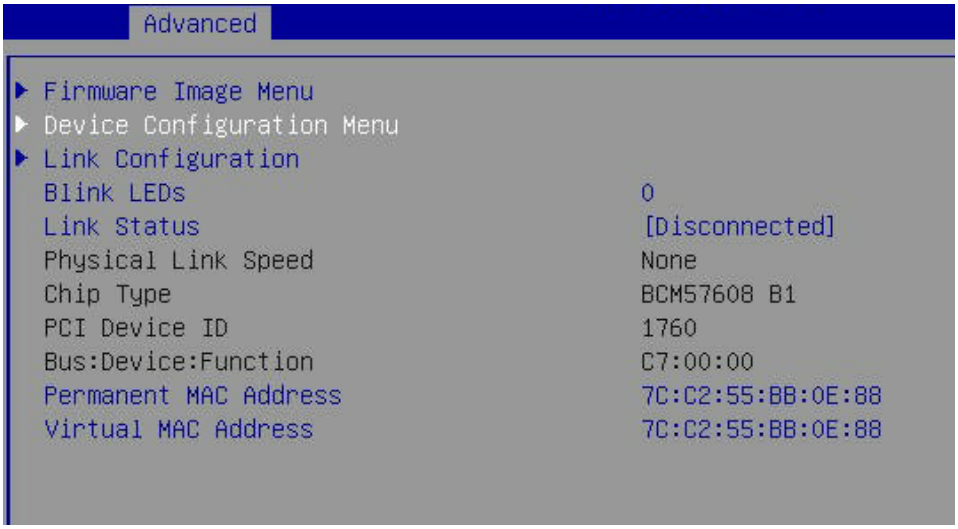


Figure 4-2: Selecting Device Configuration Menu

4. Select **Port Operation Mode**.

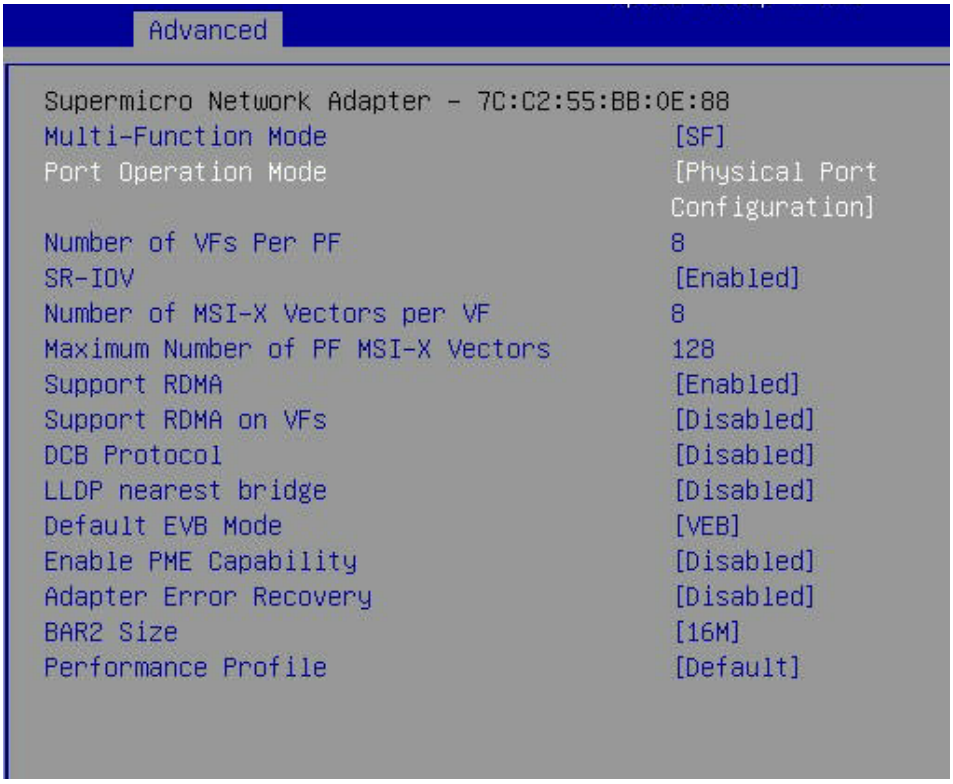


Figure 4-3: Selecting Port Operation Mode

5. There will be three breakout modes available as shown on the Port Operation Mode menu. Select one of the options.

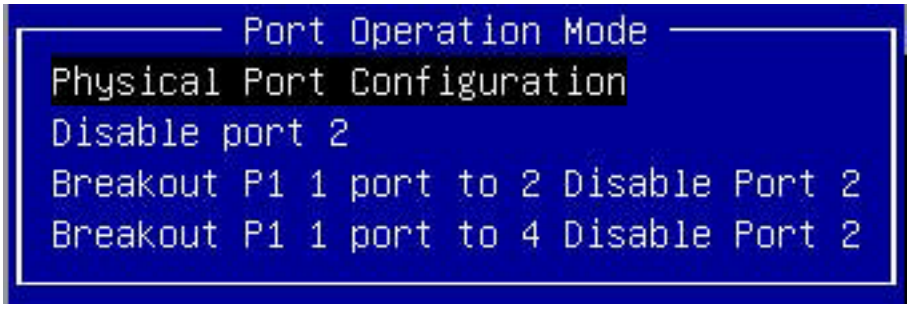


Figure 4-4: Port Operation Mode Menu

6. Navigate to the **Save & Exit** tab.
7. Select **Save Changes and Reset**.
8. Select **Yes** to reboot and apply changes. If you do not want to apply the currently chosen changes, select **No**.
9. After the reboot, cold boot the system to take effect.

4.2 Linux

Take the following steps to adjust the breakout port configuration through Linux:

1. Download Broadcom NetXtreme-E <your OS> Installer directly from the Broadcom Ethernet Network Adaptors site.
2. Install `niccli` in `bcm_<version>/utils/niccli`.
3. Type the following command into Linux.

   ```
   niccli -i <index> nvm --setoption port_operation_mode --value <option>
   ```

4. Input one of the following values as shown to select a port operation mode option:

   - 4 — This option will disable Port 2.

```
[root@localhost ~]# niccli -i 1 nvm --setoption port_operation_mode --value 4

port_operation_mode is set successfully
Please cold boot the system to apply the configuration
```

Figure 4-5: Disable Port 2

   - 12 — This option will breakout Port 1 from 1 port to 2 ports, and disable Port 2.

```
[root@localhost bundle]# niccli -i 1 nvm --setoption port_operation_mode --value 12

port_operation_mode is set successfully
Please cold boot the system to apply the configuration
```

Figure 4-6: Breakout Port 1 from 1 to 2, Disable Port 2

   - 13 — This option will breakout Port 1 from 1 port to 4 ports, and disable Port 2.

```
[root@localhost bundle]# niccli -i 1 nvm --setoption port_operation_mode --value 13

port_operation_mode is set successfully
Please cold boot the system to apply the configuration
```

Figure 4-7: Breakout Port 1 from 1 to 4, Disable Port 2

- 0 — This option will revert the port operation mode back to the original state.

```
[root@localhost ~]# niccli -i 1 nvm --setoption port_operation_mode --value 0

ort_operation_mode is set successfully
lease cold boot the system to apply the configuration
```

Figure 4-8: Change Back To Physical Port Configuration

5. Cold boot the system for the command to take effect.

(Disclaimer Continued)

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