

AOC-STG-i4S



USER'S MANUAL

Revision 1.1a

The information in this user's manual has been carefully reviewed and is believed to be accurate. The manufacturer assumes no responsibility for any inaccuracies that may be contained in this document, and makes no commitment to update or to keep current the information in this manual, or to notify any person or organization of the updates. **Please Note: For the most up-to-date version of this manual, please see our website at www.supermicro.com**.

Super Micro Computer, Inc. ("Supermicro") reserves the right to make changes to the product described in this manual at any time and without notice. This product, including software and documentation, is the property of Supermicro and/ or its licensors, and is supplied only under a license. Any use or reproduction of this product is not allowed, except as expressly permitted by the terms of said license.

IN NO EVENT WILL Super Micro Computer, Inc. BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, SPECULATIVE OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OR INABILITY TO USE THIS PRODUCT OR DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN PARTICULAR, SUPER MICRO COMPUTER, INC. SHALL NOT HAVE LIABILITY FOR ANY HARDWARE, SOFTWARE, OR DATA STORED OR USED WITH THE PRODUCT, INCLUDING THE COSTS OF REPAIRING, REPLACING, INTEGRATING, INSTALLING OR RECOVERING SUCH HARDWARE, SOFTWARE, OR DATA.

Any disputes arising between manufacturer and customer shall be governed by the laws of Santa Clara County in the State of California, USA. The State of California, County of Santa Clara shall be the exclusive venue for the resolution of any such disputes. Supermicro's total liability for all claims will not exceed the price paid for the hardware product.

FCC Statement: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in industrial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

<u>California Best Management Practices Regulations for Perchlorate Materials</u>: This Perchlorate warning applies only to products containing CR (Manganese Dioxide) Lithium coin cells. "Perchlorate Material-special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate".



WARNING: This product can expose you to chemicals including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to <u>www.P65Warnings.ca.gov</u>.

The products sold by Supermicro are not intended for and will not be used in life support systems, medical equipment, nuclear facilities or systems, aircraft, aircraft devices, aircraft/emergency communication devices or other critical systems whose failure to perform be reasonably expected to result in significant injury or loss of life or catastrophic property damage. Accordingly, Supermicro disclaims any and all liability, and should buyer use or sell such products for use in such ultra-hazardous applications, it does so entirely at its own risk. Furthermore, buyer agrees to fully indemnify, defend and hold Supermicro harmless for and against any and all claims, demands, actions, litigation, and proceedings of any kind arising out of or related to such ultra-hazardous use or sale.

Manual Revision 1.1a

Release Date: February 04, 2025

Unless you request and receive written permission from Super Micro Computer, Inc., you may not copy any part of this document. Information in this document is subject to change without notice. Other products and companies referred to herein are trademarks or registered trademarks ofW their respective companies or mark holders.

Copyright © 2025 by Super Micro Computer, Inc. All rights reserved. Printed in the United States of America

Preface

About This Manual

This user's guide is written for system integrators, IT technicians, and knowledgeable end users. It provides information for the installation and use of the AOC-STG-i4S add-on card.

About This Add-On Card

The AOC-STG-i4S is an advanced, market-leading 10 GbE SFP+ controller. The four LAN ports on the card provide a connection speed of 10 Gbps. The card features the Intel[®] XL710-BM1 controller and is supported on the Windows and Linux operating systems. It expands virtualization beyond the server level to the network level and combines with hardware optimizations and offloads. It provides unmatched features for virtualization, flexibility for LAN and SAN networks, and reliable performance. This is the best choice for rapid provisioning of networks in an agile data center.

This product is sold only as part of an integrated solution with Supermicro[®] server systems.

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 (http://www.supermicro.com/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 below 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: http://www.supermicro.com/about/policies/safety_information.cfm
- 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

AOC	-AT	G-i2	2T2S	M
1 st	2 nd 3	rd 5 th 6	th7th 8th	9 th

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 (i350), 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 Alow – Non-IN: To height bracket for Edge systems, M: 0.50 height bracket for all other systems.

Contacting Supermicro

Headquarters

Address:	Super Micro Computer, Inc.
	980 Rock Ave.
	San Jose, CA 95131 U.S.A.
Tel:	+1 (408) 503-8000
Fax:	+1 (408) 503-8008
Email:	marketing@supermicro.com (General Information)
	Sales-USA@supermicro.com (Sales Inquiries)
	Government_Sales-USA@supermicro.com (Gov. Sales Inquiries)
	support@supermicro.com (Technical Support)
	RMA@supermicro.com (RMA Support)
	Webmaster@supermicro.com (Webmaster)
Website:	www.supermicro.com
Europe	
Address:	Super Micro Computer B.V.
	Het Sterrenbeeld 28, 5215 ML
	's-Hertogenbosch, The Netherlands
Tel:	+31 (0) 73-6400390
Fax:	+31 (0) 73-6416525
Email:	Sales_Europe@supermicro.com (Sales Inquiries)
	Support_Europe@supermicro (Technical Support)
	RMA_Europe@supermicro (RMA Support)
Website:	www.supermicro.nl
Asia-Pacific	
Address:	Super Micro Computer, Inc.
	3F, No. 150, Jian 1st Rd.
	Zhonghe Dist., New Taipei City 235
	Taiwan (R.O.C)
Tel:	+886-(2) 8226-3990
Fax:	+886-(2) 8226-3992
Email:	Sales-Asia@supermicro.com.tw (Sales Inquiries)
	Support@supermicro.com.tw (Technical Support)
	RMA@supermicro.com.tw (RMA Support)
Website:	www.supermicro.com.tw

Table of Contents

Chapter 1 Introduction

1.1 (Dverview	8
1.2 k	Key Features	8
1.3 \$	Specifications	9
Cha	pter 2 Hardware Components	
2.1 A	Add-On Card Image and Layout	13
2.2 N	Major Components	14
2.3 L	AN Ports and LAN LED Indicators	15
2.4 C	Connectors and Switches	16
Cha	pter 3 Installation	
3.1 5	Static-Sensitive Devices	18
3.2 E	Before Installation	18
3.3 I	nstalling the Add-on Card	19
3.4 I	nstalling Drivers in Windows	20
3.5 I	nstalling Drivers on Linux	21

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:

- Quad SFP+ ports
- Standard low-profile form factor
- PCI Express (PCIe) 3.0 (8 GT/s)
- Network Virtualization Offloads including VXLAN and NVGRE
- Small packet performance
- Data Plane Developer Kit for efficient packet processing
- Low Power Consumption
- Intel[®] Flow Director
- Intelligent Offloads
- Unified networking providing a single wire support for LAN and storage
- Asset Management Features
- Supports both Direct Attach Copper (DAC) and fiber cables
- RoHS compliant 6/6

1.3 Specifications

General

- Intel XL710-BM1 controller
- Low profile standard form factor
- PCIe 3.0 x8 (8 GT/s) interface
- Quad SFP+ connectors with speed up to 10 Gbps per port
- Load balancing on multiple CPUs
- Intel® PROSet Utility for Windows Device Manager
- Time Sync (IEEE 1588)
- Energy Efficient Ethernet (EEE)
- Dynamic Device Personalization (DDP)

I/O Features

- Intel[®] Flow Director
- 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
- Jumbo Frame (9.5 KB)

Virtualization Features

- Next-Generation VMDq with up to 256 VMDq VMs supported
- PCI-SIG SR-IOV with up to 128 virtual ports
- Virtual Machine Load Balancing (VMLB)
- Advanced Packet Filtering

- VLAN support for up to 4096 VLAN tags
- VXLAN and NVGRE support

Storage Interface Features

- Preboot eXecution Environment (PXE) support
- iSCSI remote boot
- Simple Network Management Protocol (SNMP) and Remote Network Monitoring (RMON) static counters

Management Features

- Asset Management support on Supermicro® X10 generation platforms
- Controller asset tags such as part number, revision, serial number, and MAC addresses
- Controller thermal sensor

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
- TCP segmentation/large send offload
- Interrupt moderation

OS Support

The AOC-STG-i4S add-on card supports the following operating systems:

• Windows® Server 2012 R2, 2012, 2008 R2 X86-64

- Linux RedHat EL 6.5 and 7.0 IA-32, X86-64, and IA-64
- Linux SuSE SLES 11 SP3 and 12 IA-32, X86-64, and IA-64
- FreeBSD 9 and 10 IA-32, X86-64, and IA-64
- UEFI 2.1 and 2.3 X86-64 and I-64
- VMware ESXi 5.1 and ESXi 5.5 X86-64

Cable Support

- SFP+ direct-attach twinaxial copper cables up to 7 m
- Fiber-optic cables (with optional SFP+ transceivers)

Power Consumption

- Typical power consumption: 4 W
- Maximum power consumption: 8 W

Physical Dimensions

- Card PCB dimensions: 2.73" (6.90 mm) x 5.9" (149.9 cm) x 0.061" (1.5494 mm) (H x W x D)
- Height of end brackets: Standard 4.725" (120 mm), low-profile 3.13" (79.4 mm)

Optional Accessories

- AOC-E10GSFPSR: SFP+ transceiver module for short range fiber cables (up to 300 m)
- AOC-E10GSFPLR: SFP+ transceiver module for long range fiber cables (up to 3000 m)
- AOC-TSR-FS: SFP+ transceiver module for short range fiber cables (up to 300 m)
- CBL-0347L: 39.37" (100 cm) 10 GbE SFP+ to SFP+, Twinaxial copper cable
- CBL-0348L: 118.11" (300 cm) 10 GbE SFP+ to SFP+, Twinaxial copper cable
- CBL-0349L: 196.85" (500 cm) 10 GbE SFP+ to SFP+, Twinaxial copper cable

Environmental Conditions

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

Compliance Platforms

RoHS Compliant 6/6, Pb Free

Supported Platforms

- Supermicro® motherboards with minimum one PCIe x8 slot
- Supermicro® server systems with minimum one low-profile or full-height PCIe x8 expansion slot

Chapter 2

Hardware Components

2.1 Add-On Card Image and Layout



AOC-STG-i4S Image



AOC-STG-i4S Layout

2.2 Major Components

The following major components are installed on the AOC-STG-i4S:

	AOC-STG-i4S Major Components				
No	Component Name	Definition			
1	Intel [®] XL710-BM1	Ethernet LAN controllers			
2	J1_SFP P0	SFP+ Port 0			
3	J1_SFP P1	SFP+ Port 1			
4	J1_SFP P2	SFP+ Port 2			
5	J1_SFP P3	SFP+ Port 3			
6	JP2	Thermal Alert			
7	S1	DIP Switch			
8	LED3	Thermal Alert LED			

2.3 LAN Ports and LAN LED Indicators

LAN Ports

There are four SFP+ LAN ports on the add-on card. These LAN ports support connection speeds of 10 Gbps and 1 Gbps. Use a direct-attach twinaxial copper cable.

Note: Refer to "Optional Accessories" on page 12 for recommended cables.



LAN Port LED Indicators

Each SFP+ LAN port has two LEDs to indicate speed and data activity. The LEDs will be lit in different colors to indicate different statuses.



SFP+ LAN Port LEDs				
LED Color		Definition		
Activity	Blinking Green	Activity		
Link	Green	10 Gb Link Speed		
	Yellow	1 Gb Link Speed		

2.4 Connectors and Switches

Thermal Alert Connector

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.

Thermal Alert		
Pin Definition		
Pin	Definition	
1	GND	
2	Thermal_Alert_N	
3	GND	

Thermal Alert LED

A thermal alert LED is located at LED3. The yellow LED indicates there is a thermal alert. Refer to the table on the right for the LED status. Refer to page 14 for the location of the LED.

DIP Switch

The DIP Switch at S1 provides SMBUS address selection. You can configure the card with a static SMBUS address. Refer to the tables below for address selections. Refer to page 13 for the location of the switch.



S1	S1 DIP Switch for User Selection				
Switch Position	OFF (Default)	ON			
1	SMBUS ARP Mode	Static SMBUS Address Mode			
2–5	Static SMBUS Address Selection				
6	Thermal Reading Enable	Thermal Reading Disable			

Static SMBUS Address Selection Table by DIP Switch S1					
SMBUS Address	S1 Position #5	S1 Position #4	S1 Position #3	S1 Position #1	
30/D0	OFF/ON	OFF	OFF	OFF	
32/D2	OFF/ON	OFF	OFF	ON	
34/D4	OFF/ON	OFF	ON	OFF	
36/D6	OFF/ON	OFF	ON	ON	
38/D8	OFF/ON	ON	OFF	OFF	
3A/DA	OFF/ON	ON	OFF	ON	
3C/DC	OFF/ON	ON	ON	OFF	
3E/DE	OFF/ON	ON	ON	ON	

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 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 follow the instructions below.

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

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

3.4 Installing Drivers in Windows

Follow the steps below to install the drivers for Windows. Download the latest *CDR-NIC* drivers from ftp://ftp.supermicro.com/Networking_Drivers/.

- 1. Run the *CDR-NIC* drivers installation.
- 2. When the SUPERMICRO window appears, click on the computer icon next to the product model.

SUPERMICRO Add-On Card Drivers and Tools (Win10)				\times
SUPERMICR [®]			Intel 10Libl, Adapters UTG-i2, STG-i2, STG-i25, STG-i27, CTG-i15, CTG-i25, MH25G-m2527, STGF-i25, MTG-i45, ATG-i27(M), ATG-i2725, MTG-i2725, ATG-i25, ATG-i45, URG4N4-i2X7, URG4N4-i4XT5, 2UR68G4-i2X7, 2UR68G4-i4XT5, ATGC-i27, STG-i47, STG-i45	
Drivers & Tools	\odot		IB Adapters (IB drivers) UINF-m2, UBC-m1, UBC-m2, R1UG-BQ, CIBF-m1, CIBQ-m1, UIBF-m1, MHIBF-m1Q2G, MHIBF-m2Q2G, MHIBE-m1CG, MIDFC-m1C,	
	\odot		IB Adapters (Ethernet drivers) UINF-m2, UIBQ-m1, UIBQ-m2, R1UG-iBQ, CIBF-m1, CIBQ-m1, UIRF-m1	
WEITER .			Intel 1GbE Adapters UG+4, PG+2+, SG+2, SG+4, SGP+4, CGP+2, SGP+2, CG+2 MHIBF-m1Q2G, MHIBF-m2Q2G, MHIBE-m1CG, AG+8	
the second			MGP-12, MGP-14, AG-145, AG-12, AG-14 Intel Omni Path 100G Adapters MHFI-11C, SHFI-11C	
			Broadcom 1GbE Adapters MG-b2	
			Broadcom 10GbE Adapters MTG-b2T, STG-b2T, ATG-b2TM, URG4N4-b2XT, CTG-b2T, STG-b4S	
SUPERMICRO Computer Inc.			Broadcom 25GbE Adapters MH25G-b2S2G, S25G-b2S, URN4-b2TS, A25G-b2S	
			Broadcom 100GbE/200GbE Adapters S100G-b1C, S100G-b2C, A100G-b2C, S200G-B1C, A200G-B1CM	
			Mellanox 25GbE Adapters C25G-m2S, C25G-m1S, MH25G-m2S2T, S25G-m2S, M25G-m4S, AH25G-m2S2T, A25G-m2S, 2UR68G4-m2TS, URG4N4-m2TS, S25G6-M2S	
			Intel 25GbE / 40GbE Adapters M25G425, S25G425, S40G410, S40G420, STGC42T	
			Mellanox 100GbE Adapters S100G-m2C, A100G-m2C	
			Intel E810 Adapters \$100GC-2C, \$25GC-2S, \$25GC-4S, A25G-2S, A25G-4S, C25G-2SM	
			Broadcom BCM57608 2006bE/400GbE Adapters S400G-B1C, A400G-B1CM, A200G-B2CM, S200G-B2C	
	•		Marvel Console Driver SLG2-2TM2	
			Read Product Description and Manual	
	For	more infor	nation, please visit SUPERMICRO's web site.	

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 Drivers on Linux

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

Build a Binary RPM Package

- 1. Run 'rpmbuild -tb <filename.tar.gz>'.
- 2. Replace <filename.tar.gz> with the specific filename of the driver.



Note: For the build to work properly, the current running kernel MUST match the version and configuration of the installed kernel sources. If you have just recompiled the kernel, reboot the system at this time.

Follow the instructions below to build the driver manually.

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

/home/username/i40e

or

/usr/local/src/i40e

2. Untar/unzip the archive:

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

3. Change to the driver src directory:

cd i40e-x.x.x/src/

4. Compile the driver module:

```
make install
```

The binary will be installed as:

/lib/modules/[KERNEL_VERSION]/kernel/drivers/net/i40e/i40e.[k]o

The install locations listed above are the default locations. They might not be correct for certain Linux distributions. For more information, see the Idistrib.txt file included in the driver tar.

```
make CFLAGS EXTRA="-i40e NO LRO" install
```

Note: I40E_NO_LRO is a compile-time flag. The user can enable it at compile time to remove support for LRO from the driver. The flag is used by adding CFLAGS_EXTRA=-"I40E_NO_LRO" to the make file when it's being compiled.

5. Load the module:

For kernel 2.6.x, use the modprobe command:

modprobe i40e

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/i40e/
i40e.ko
```

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

6. Assign an IP address to the interface by entering the following, where x is the interface number:

ifconfig ethx <IP address> netmask <netmask>

7. Verify that the interface works. Enter the following, where <IP_address> is the IP address for another machine on the same subnet as the interface that is being tested:

ping <IP address>

(Disclaimer Continued)

The products sold by Supermicro are not intended for and will not be used in life support systems, medical equipment, nuclear facilities or systems, aircraft, aircraft devices, aircraft/emergency communication devices or other critical systems whose failure to perform be reasonably expected to result in significant injury or loss of life or catastrophic property damage. Accordingly, Supermicro disclaims any and all liability, and should buyer use or sell such products for use in such ultra-hazardous applications, it does so entirely at its own risk. Furthermore, buyer agrees to fully indemnify, defend and hold Supermicro harmless for and against any and all claims, demands, actions, litigation, and proceedings of any kind arising out of or related to such ultra-hazardous use or sale.