

# NIM-S26B

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Network Interface Module

Quick Installation Guide 1<sup>st</sup> Ed

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# Packing List

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Before setting up your product, please make sure the following items have been shipped:

Item	Quantity
● NIM-S26B	1

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

## About this Document

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This User's Manual contains all the essential information, such as detailed descriptions and explanations on the product's hardware and software features (if any), its specifications, dimensions, jumper/connector settings/definitions, and driver installation instructions (if any), to facilitate users in setting up their product.

Users may refer to the [AAEON.com](http://AAEON.com) for the latest version of this document.

## Safety Precautions

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Please read the following safety instructions carefully. It is advised that you keep this manual for future references

1. All cautions and warnings on the device should be noted.
2. Make sure the power source matches the power rating of the device.
3. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
4. Always completely disconnect the power before working on the system's hardware.
5. No connections should be made when the system is powered as a sudden rush of power may damage sensitive electronic components.
6. If the device is not to be used for a long time, disconnect it from the power supply to avoid damage by transient over-voltage.
7. Always disconnect this device from any AC supply before cleaning.
8. While cleaning, use a damp cloth instead of liquid or spray detergents.
9. Make sure the device is installed near a power outlet and is easily accessible.
10. Keep this device away from humidity.
11. Place the device on a solid surface during installation to prevent falls.
12. Do not cover the openings on the device to ensure optimal heat dissipation.
13. Watch out for high temperatures when the system is running.
14. Do not touch the heat sink or heat spreader when the system is running.
15. Never pour any liquid into the openings. This could cause fire or electric shock.
16. As most electronic components are sensitive to static electrical charge, be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and contain all electronic components in any static-shielded containers.

17. If any of the following situations arises, please the contact our service personnel:
  - i. Damaged power cord or plug
  - ii. Liquid intrusion to the device
  - iii. Exposure to moisture
  - iv. Device is not working as expected or in a manner as described in this manual
  - v. The device is dropped or damaged
  - vi. Any obvious signs of damage displayed on the device
18. **DO NOT LEAVE THIS DEVICE IN AN UNCONTROLLED ENVIRONMENT WITH TEMPERATURES BEYOND THE DEVICE'S PERMITTED STORAGE TEMPERATURES (SEE CHAPTER 1) TO PREVENT DAMAGE.**

## FCC Statement

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### **Warning!**



This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

### **Caution:**

*There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.*

### **Attention:**

*Il y a un risque d'explosion si la batterie est remplacée de façon incorrecte. Ne la remplacer qu'avec le même modèle ou équivalent recommandé par le constructeur. Recycler les batteries usées en accord avec les instructions du fabricant et les directives gouvernementales de recyclage.*



China RoHS Requirements (CN)

产品中有毒有害物质或元素名称及含量

AAEON 主板/子板/背板

QQ4-381 Rev.A2

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
印刷电路板 及其电子组件	×	○	○	○	○	○
外部信号 连接器及线材	×	○	○	○	○	○
<p>本表格依据 SJ/T 11364 的规定编制。</p> <p>○：表示该有毒有害物质在该部件所有均质材料中的含量均在GB/T 26572标准规定的限量要求以下。</p> <p>×：表示该有害物质的某一均质材料超出了GB/T 26572的限量要求，然而该部件仍符合欧盟指令2011/65/EU 的规范。</p> <p>环保使用期限(EFUP (Environmental Friendly Use Period))：10年</p> <p>备注：此产品所标示之环保使用期限，系指在一般正常使用状况下。</p>						

## China RoHS Requirement (EN)

Name and content of hazardous substances in product

AAEON Main Board/Daughter Board/Backplane

QO4-381 Rev.A2

Part Name	Hazardous Substances					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
PCB Assemblies	×	○	○	○	○	○
Connector and Cable	×	○	○	○	○	○

The table is prepared in accordance with the provisions of SJ/T 11364.

○: Indicates that said hazardous substance contained in all of the homogenous materials for this product is below the limit requirement of GB/T 26572.

×: Indicates that said hazardous substance contained in at least one of the homogenous materials used for this part is above the limit requirement of GB/T 26572.

But this product still be compliance with 2011/65/EU Directive (allowed with 2011/65/EU Annex III of RoHS exemption with number 6(c),7(a),7(c)-1).

EFUP (Environment Friendly Use Period) value: 10 years

Notes: This product defined period of use is under normal condition.

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# Chapter 1

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Product Specifications

## 1.1 Specifications

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### Main

- Form Factor 40G fiber module
- Main Chipset Intel® XL710 ethernet controller x 1
- Host Interface PCIe [x8]
- LAN Port QSFP 40 GbE connector x 2
- Bypass -
- Indicator LED x 2 for Active/Link
- Board Size 149.7 x 77 mm (5.89 x 3.03")
- Operating Temperature 0 ~ 40°C (32 ~ 104°F)
- Certification CE/ FCC class A

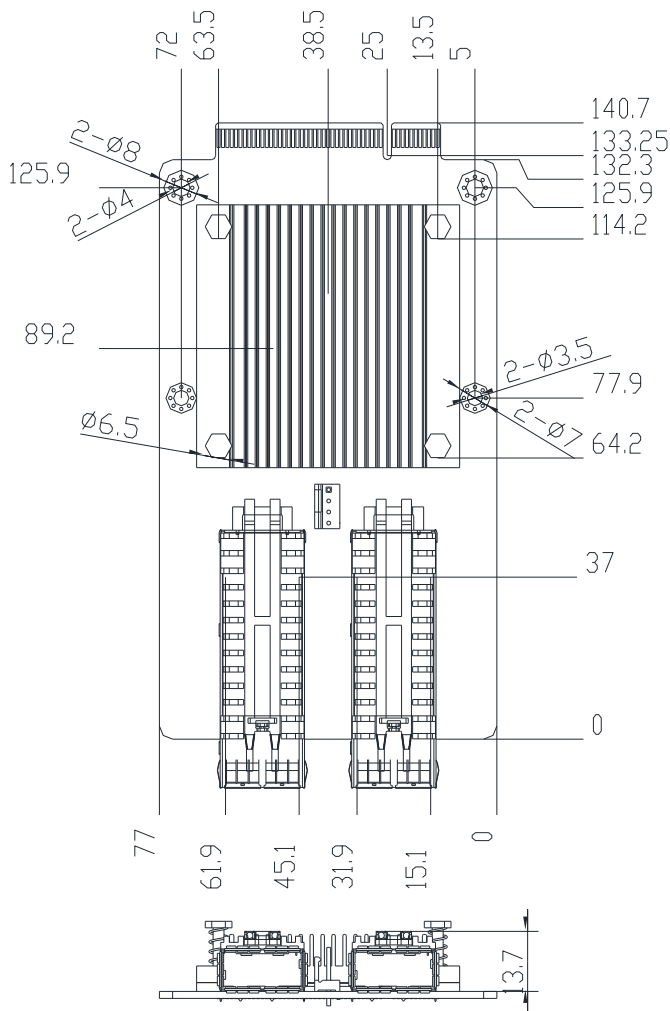
# Chapter 2

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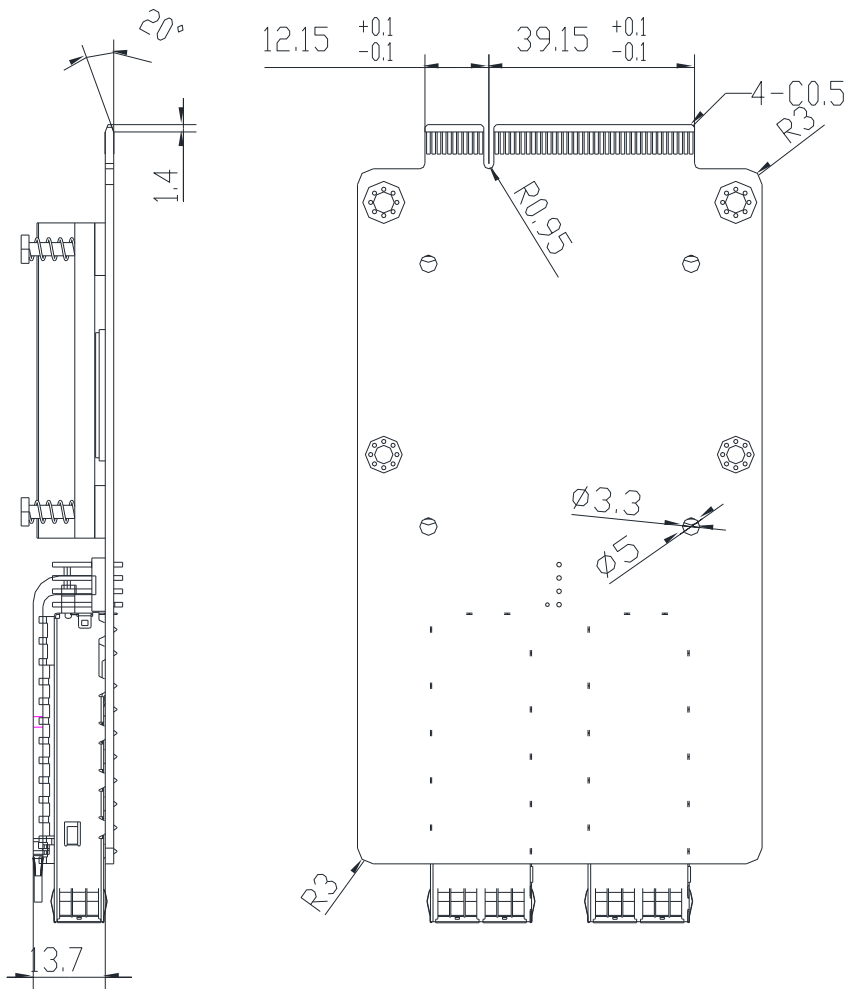
Hardware Information

## 2.1 Dimensions

### Component Side



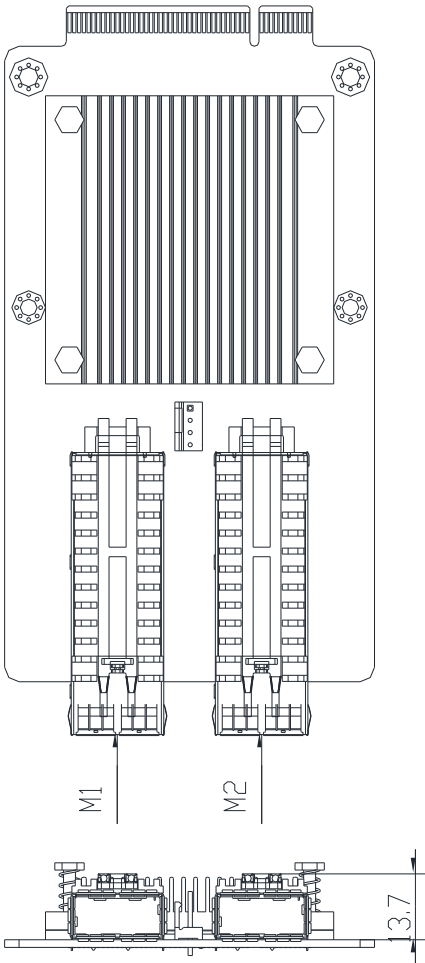
## Solder Side



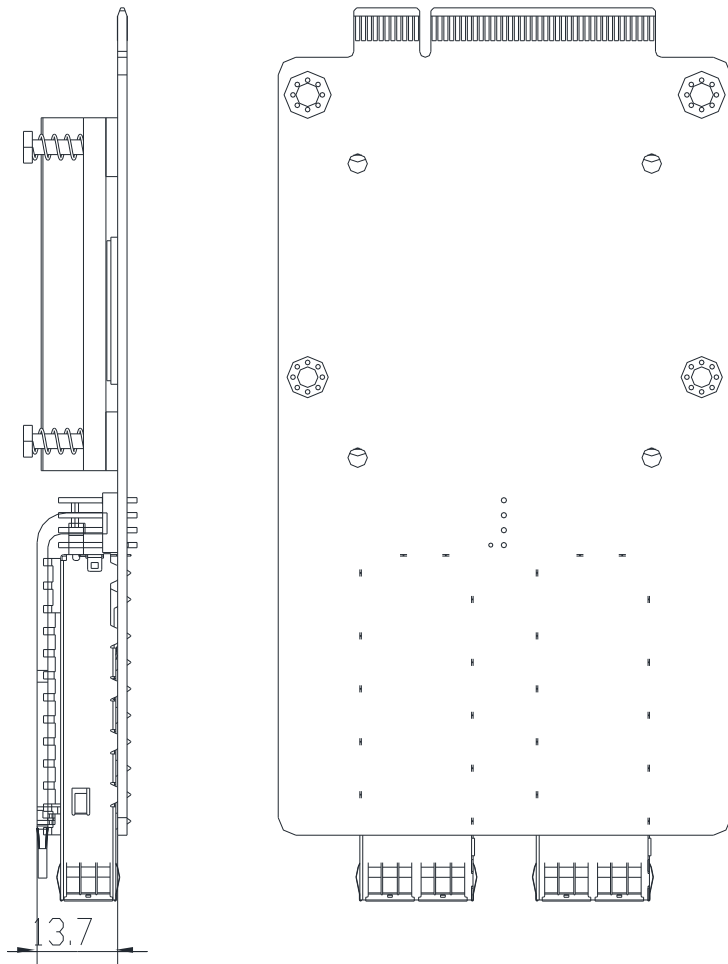


## 2.2 Jumpers and Connectors

### Component Side



## Solder Side



### 2.3 List of Connectors

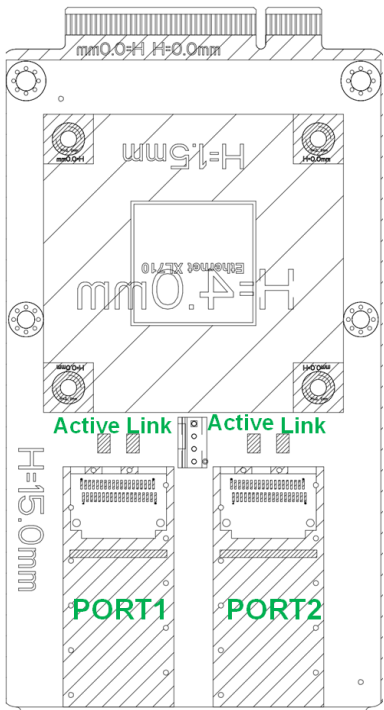
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Please refer to the table below for all of the board’s connectors that you can configure for your application

Label	Function
M1	QSFP Connector PORT 1
M2	QSFP Connector PORT 2

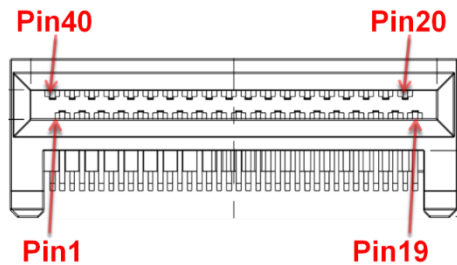
### 2.3.1 QSFP 40G 2-PORT Connector (M1 & M2)

#### NIM-S26B M1 – M2 LAN Port Array



Port	Function
1	Standard QSPF PIN Definition
2	Standard QSPF PIN Definition

### 2.3.1.1 Standard QSPF Pin Definition



Pin	Signal	Pin	Signal
1	GND	2	TX2n
3	TX2p	4	GND
5	TX4n	6	TX4p
7	GND	8	ModSelL
9	ResetL	10	VccRx
11	SCL	12	SDA
13	GND	14	RX3p
15	RX3n	16	GND
17	RX1p	18	RX1n
19	GND	20	GND
21	RX2n	22	RX2p
23	GND	24	RX4n
25	RX4p	26	GND
27	ModPrsL	28	IntL
29	VccTx	30	Vcc1
31	LPMODE	32	GND
33	TX3p	34	TX3n
35	GND	36	TX1p
37	TX1n	38	GND

# Chapter 3

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Drivers Installation

## 3.1 Driver Installation

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The drivers can be found in the product page for NIM-S26A at [aaeon.com](http://aaeon.com). Please follow the sequence below to install the drivers.

### Step 1 – Install Ethernet Controller Drivers

1. Select the folder of **Win7\_64**
2. Open the **Autorun.exe** file in the folder
3. Follow the instructions
4. Drivers will be installed automatically