

# EMPL-G2N1

## mPCIe to dual GbE LAN Module

**Customer:**

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**Customer**

**Part Number:**

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**Innodisk**

**Part Number:**

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**Innodisk**

**Model Name:**

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**Date:**

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<b>Innodisk</b>	<b>Customer</b>
<b>Approver</b>	<b>Approver</b>

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## REVISION HISTORY

Revision	Description	Date
1.0	First Released	Oct, 2022

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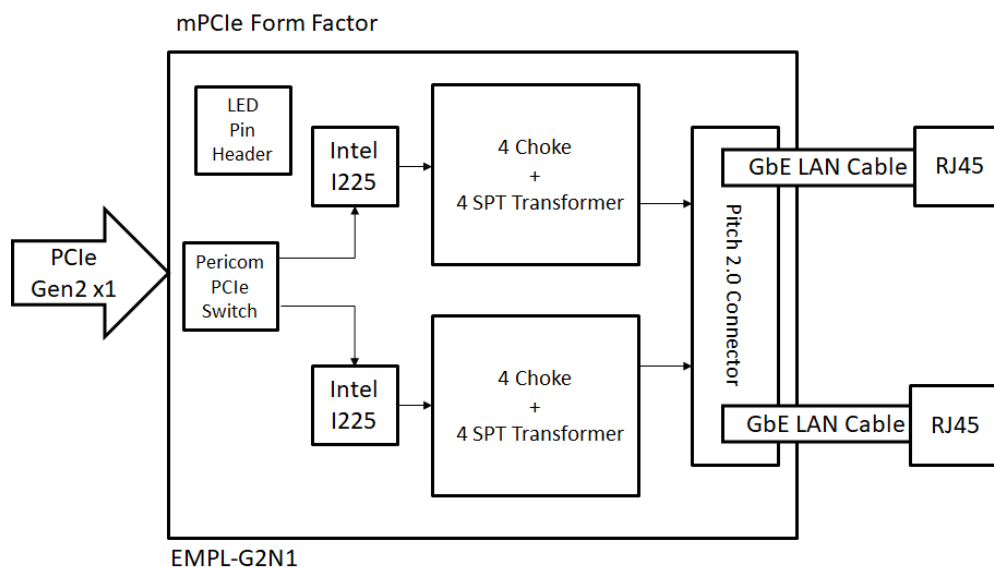
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# 1. Product Introduction

## 1.1. Overview

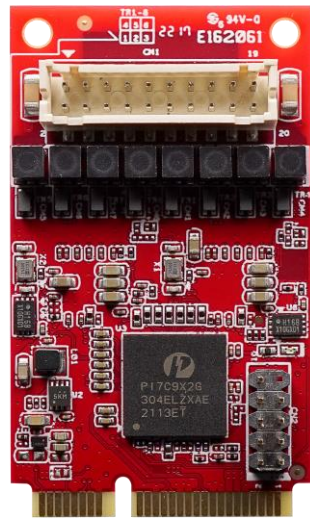
Innodisk EMPL-G2N1 is designed with standard Mini PCI Express form factor, EMPL-G2N1 supports PCIe Gen 2.1 with a single lane to dual independent GbE LAN, optimized for higher performance and lower power. EMPL-G2N1 is designed with on-board transformer which brings you a flexible cable design for small form factor or embedded systems.



**Figure 1: Block Diagram**

## 1.2. Features

- Dual GbE LAN ports
- Complies with EN61000-4-2 (ESD) Air-15kV, Contact-8kV
- Transformer on PCB for flexible cable design
- External LED indicator pin for speed 10/100/1000
- Optional Industrial Temperature (-40°C to +85°C) support
- 30μ" golden finger, 3-year warranty
- Industrial design, manufactured in innodisk Taiwan



**Figure 2: mPCIe Board Picture**



**Figure 3: 20pin Pitch 2.0 Connector to 2 RJ45 Cable**

## 2. Product Specifications

### 2.1. Device Parameters

**Table 1: Device Parameters**

<b>Form Factor</b>	mPCIe
<b>Input I/F</b>	PCI Express 2.1 x 1
<b>Output I/F</b>	Dual GbE LAN
<b>Output Connector</b>	20 Pin Pitch 2.0 Connector
<b>Dimension (WxLxH)</b>	mPCIe Board: 29.85 x 50.8 x 9.35 mm

### 2.2. Electrical Specifications

#### 2.2.1. Power Requirement

**Table 2: Power Requirement**

Item	Connector	Rating
Input voltage	mPCIe Golden Finger	+3.3 DC +-5%

#### 2.2.2. Power Consumption

**Table 3: Power Consumption**

Voltage(V)	RMS(mA)	Max (mA)
3.3	759.49	828.1

### 2.3. Environmental Specifications

#### 2.3.1. Temperature Ranges

**Table 4: Temperature Ranges**

Temperature	Range
Operating	Standard Grade: 0°C to +70°C Industrial Grade: -40°C to +85°
Storage	-55°C to +95°



### 2.3.2. Humidity

Relative Humidity: 10-95%, non-condensing

### 2.3.3. Shock and Vibration

**Table 5: Shock and Vibration**

Reliability	Test Conditions	Reference Standards
Vibration	7 Hz to 2K Hz, 20G, 3 axes	IEC 68-2-6
Mechanical Shock	Duration: 0.5ms, 1500 G, 3 axes	IEC 68-2-27

### 2.3.4. Mean Time between Failure (MTBF)

Reliability prediction methodology provides the basis for reliability evaluation and analysis. The purpose of the prediction is to predict the life time of the product in units of failure rate and MTBF.

**Table 6: Mean Time between Failure (MTBF)**

Product	Condition	MTBF (Hours)
EMPL-G2N1-C1/W1	The analysis is at 25°C ambient temperature by Telcordia SR-332, Issues 4, Method I, Case 3 under Ground Benign, Controlled environment, 50% operation stress	7,829,472

### 2.4. CE and FCC Compatibility

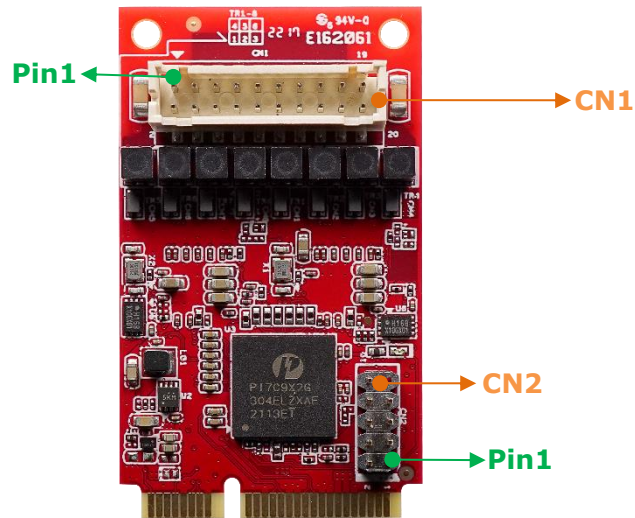
EMPL-G2N1 conforms to CE and FCC requirements.

### 2.5. RoHS Compliance

EMPL-G2N1 is fully compliant with RoHS directive.

**2.6. Hardware**

**2.6.1. Layout**



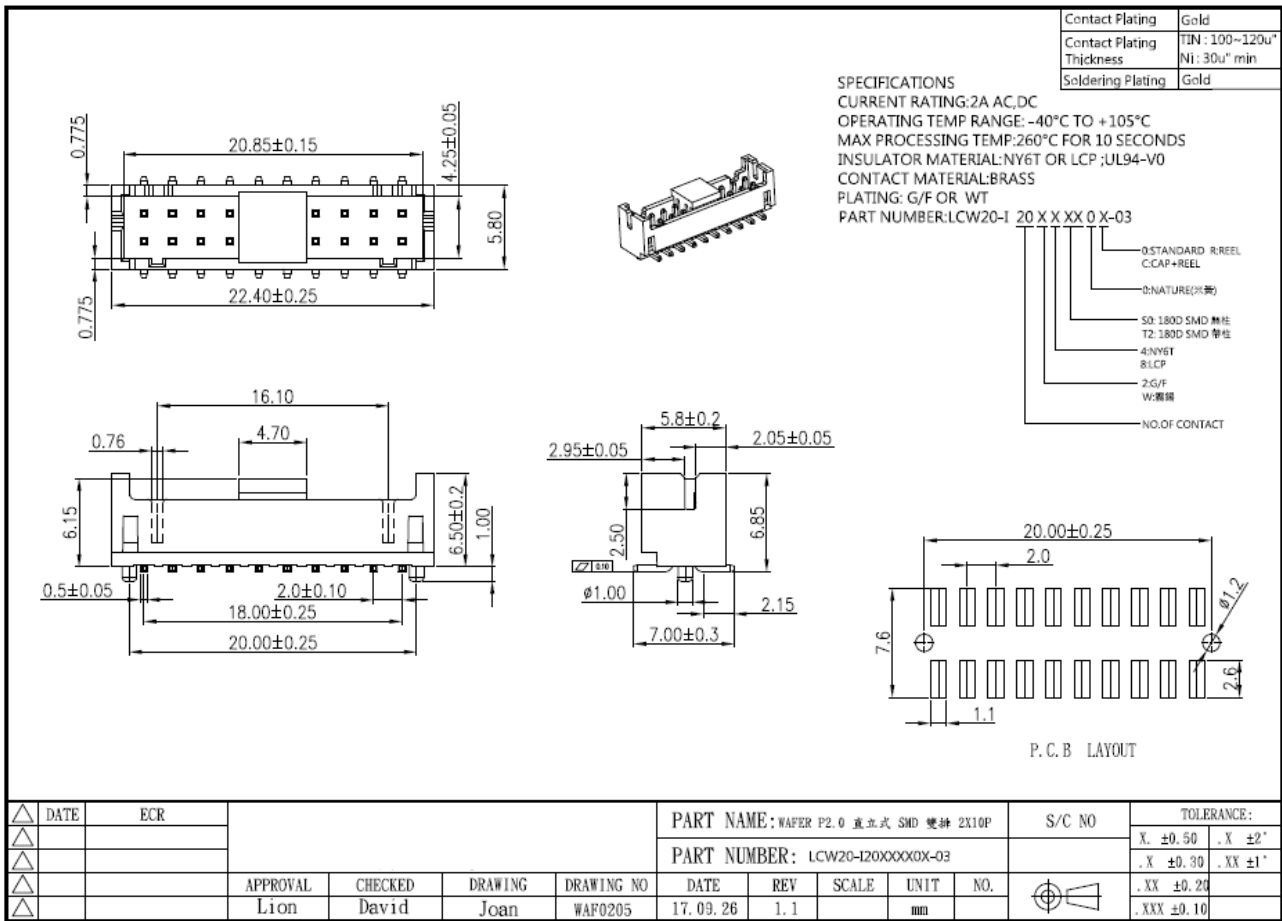
**Table 7: mPCIe PCB Layout Legend**

Label	Connector Type	Function
<b>CN1</b>	Wire to board SMD 2*10P 180° P:2.0mm H:4.0mm	GbE LAN Signal
<b>CN2</b>	2x5 Pin Header (cut 9pin) P:2.0mm	10/100/1000 LED Signal

## 2.6.2. Pin Define

Table 8: mPCIe Pin Define

Signal Name	Pin #	Pin #	Signal Name
NC	51	52	3.3V AUX
NC	49	50	GND
NC	47	48	NC
NC	45	46	NC
GND	43	44	NC
3.3V AUX	41	42	NC
3.3V AUX	39	40	GND
GND	37	38	NC
GND	35	36	NC
RX+	33	34	GND
RX-	31	32	SMBDATA
GND	29	30	SMBCLK
GND	27	28	NC
TX+	25	26	GND
TX-	23	24	3.3V AUX
GND	21	22	PERST#
NC	19	20	NC
NC	17	18	GND
GND	15	16	NC
CLK+	13	14	NC
CLK-	11	12	NC
GND	9	10	NC
GND	7	8	NC
NC	5	6	NC
NC	3	4	GND
PE_WAKE_N	1	2	3.3V AUX

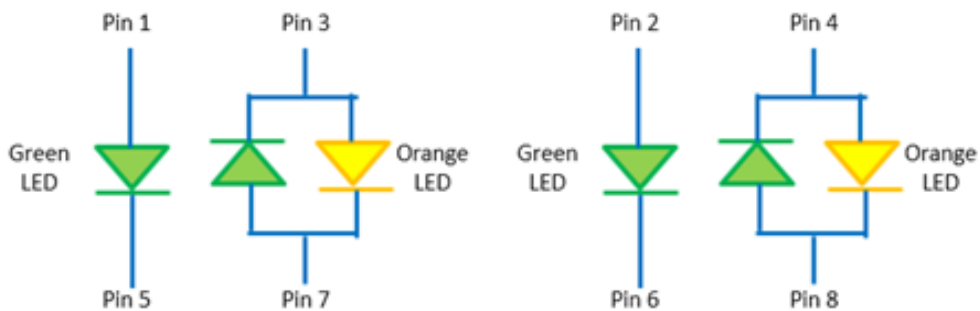
**2.6.3. I/O Connector Mechanical Drawing & Pin Defines**

**Figure 4: Wire to Board SMD 2\*10P Connector Drawing**
**Table 9: Wire to Board SMD 2\*10P Connector (CN1) Pin Define**

Signal Name	Pin #	Pin #	Signal Name
NC	<b>2</b>	<b>1</b>	GND
P1_MDI0P_CN	<b>4</b>	<b>3</b>	P1_MDI1P_CN
P1_MDI0N_CN	<b>6</b>	<b>5</b>	P1_MDI1N_CN
P1_MDI2P_CN	<b>8</b>	<b>7</b>	P1_MDI3P_CN
P1_MDI2N_CN	<b>10</b>	<b>9</b>	P1_MDI3N_CN
P2_MDI0P_CN	<b>12</b>	<b>11</b>	P2_MDI1P_CN
P2_MDI0N_CN	<b>14</b>	<b>13</b>	P2_MDI1N_CN
P2_MDI2P_CN	<b>16</b>	<b>15</b>	P2_MDI3P_CN
P2_MDI2N_CN	<b>18</b>	<b>17</b>	P2_MDI3N_CN
NC	<b>20</b>	<b>19</b>	GND

**Table 10: 2X5 Pin Header (CN2) Pin Define**

Signal Name	Pin #	Pin #	Signal Name
3.3V_LANB	1	2	3.3_LANA
LANB_LINK_100_N	3	4	LANA_LINK_100_N
LANB_LINK_ACT_N	5	6	LANA_LINK_ACT_N
LANB_LINK_1000_N	7	8	LANA_LINK_1000_N
		10	GND

**Table 11: LAN LED Table**



Speed LED	
10M	OFF
100M	OFF
1G	Orange
Link-Activity LED	
Link-up	Green
Tx/Rx Activity	Blinking Green

2.6.4. EMPL-G2N1 Mechanical Drawing

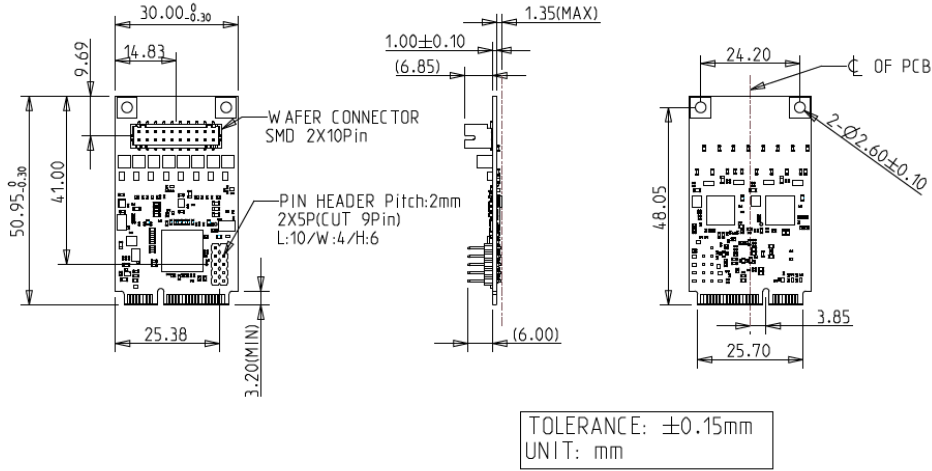


Figure 5: EMPL-G2N1 mPCIe Board Drawing

2.6.5. Cable Mechanical Drawing

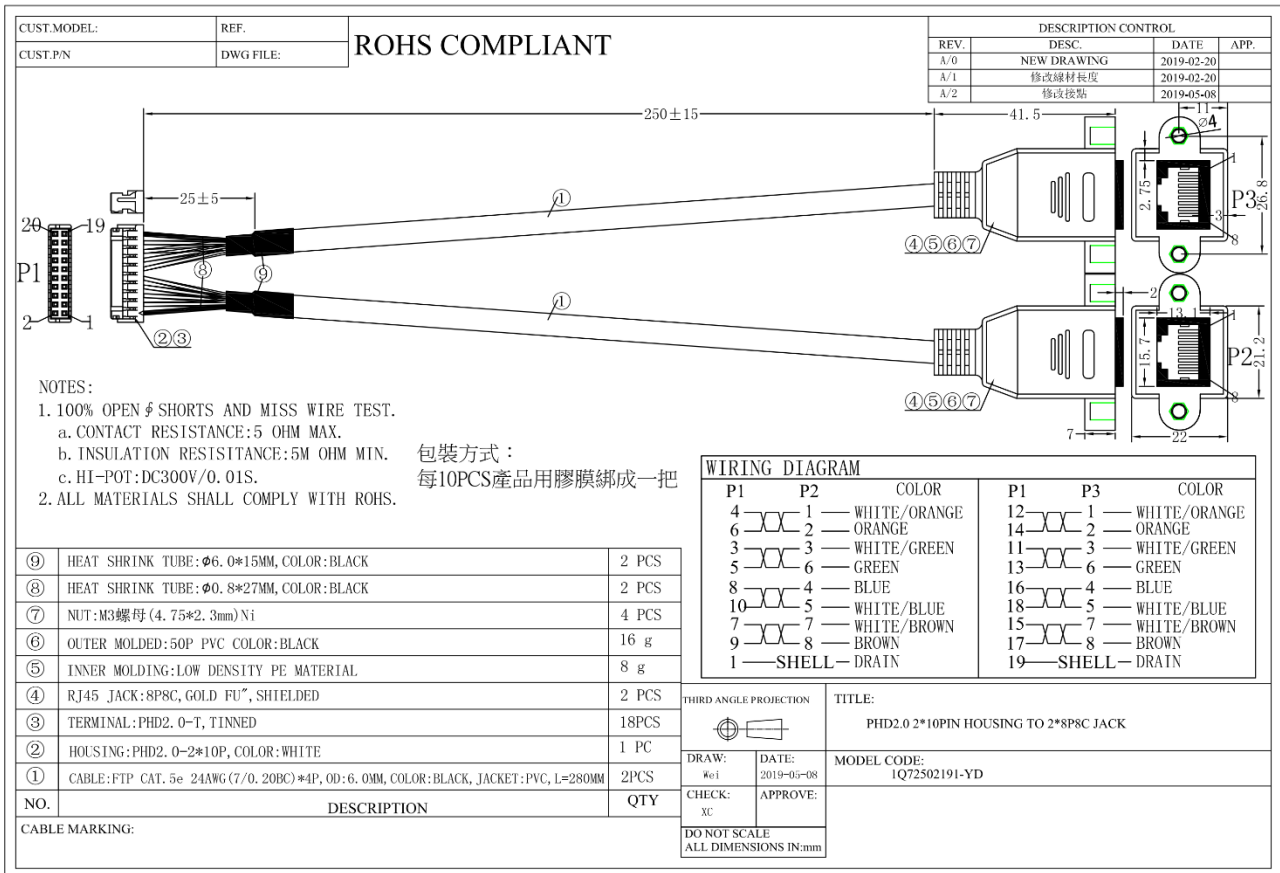


Figure 6: 20pin Pitch 2.0 Connector to 2 RJ45 Cable Drawing

### 2.6.6. Packing List

- EMPL-G2N1 mPCIe Board x 1
- 20pin Pitch 2.0 Connector to 2 RJ45 Cable x 1

### 2.7. Software Support

- Windows: 10(64bit)
- Linux (igc): kernel 5.x version

## 3. Installation Guide

Please download driver from Myinnodisk web site.

<https://myinnodisk.innodisk.com/myinnodisk/Login.aspx>

Or you can download Intel i225 chip driver from intel official web site directly.

<https://www.intel.com/content/www/us/en/products/details/ethernet/gigabit-controllers/i225-controllers/>

## 4. Appedix

innodisk

### 宜鼎國際股份有限公司 Innodisk Corporation REACH Declaration

Tel:(02)7703-3000 Fax:(02) 7703-3555 Internet: <https://www.innodisk.com/>

Innodisk Corporation pursues its social responsibility for global environmental preservation by committing to be compliant with REACH regulation (REGULATION (EC) No 1907/2006).

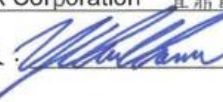
We hereby confirm that the product(s),

**Scope: Flash Memory, DRAM Module and Embedded Peripherals Products.**

- The standard products of **not listed in the Appendix2** meet the requirements of REACH SVHC regulations(SVHCs < 0.1% in Article), as described in the candidate list table currently including 224 substances and shown on the ECHA website. (<http://echa.europa.eu/de/candidate-list-table>).
- The standard products listed in the **Appendix2** contain(s) one or more hazardous substances or constituents exceeding 0.1 % by weight in article if not otherwise specified in candidate list table.  
Where the threshold value is exceeded, the substances in question are to be declared in accompanying. (SVHCs > 0.1% in Article).
- Comply with REACH Annex XVII.

#### Guarantor

Company name 公司名稱： Innodisk Corporation 宜鼎國際股份有限公司

Company Representative 公司代表人：  陳怡全

Company Representative Title 公司代表人職稱： QA Manager 品保經理

Date 日期： 2022 / 06 / 14





## RoHS 自我宣告書 (RoHS Declaration of Conformity)

### Manufacturer Products: All Innodisk EM FLASH, DRAM and EP products

- 一、 宜鼎國際股份有限公司（以下稱本公司）特此保證售予貴公司之所有產品，皆符合歐盟 2011/65/EU 及 (EU) 2015/863 關於 RoHS 之規範要求。  
Innodisk Corporation declares that all products sold to the company, are complied with European Union RoHS Directive (2011/65/EU) and (EU) 2015/863 requirement.
- 二、 本公司同意因本保證書或與本保證書相關事宜有所爭議時，雙方宜友好協商，達成協議。  
Innodisk Corporation agrees that both parties shall settle any dispute arising from or in connection with this Declaration of Conformity by friendly negotiations.
- 三、 本公司聲明我們的產品符合 RoHS 指令的附件中 7(a)、7(c)-I、6(c) 允許豁免。  
We declare, our products permitted by the following exemptions specified in the Annex of the RoHS directive.
- ※ 7(a) Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
  - ※ 7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound.
  - ※ 6(c) Copper alloy containing up to 4% lead by weight.  
(This exemption applies to products that use antennas)

Name of hazardous substance	Limited of RoHS ppm (mg/kg)
鉛 (Pb)	< 1000 ppm
汞 (Hg)	< 1000 ppm
鎘 (Cd)	< 100 ppm
六價鉻 (Cr 6+)	< 1000 ppm
多溴聯苯 (PBBs)	< 1000 ppm
多溴二苯醚 (PBDEs)	< 1000 ppm
鄰苯二甲酸二(2-乙基己基)酯 (DEHP)	< 1000 ppm
鄰苯二甲酸丁酯苯甲酯 (BBP)	< 1000 ppm
鄰苯二甲酸二丁酯 (DBP)	< 1000 ppm

宜鼎國際股份有限公司  
Innodisk Corporation

鄰苯二甲酸二異丁酯 (DIBP)	< 1000 ppm
------------------	------------

立 保 證 書 人 (Guarantor)

Company name 公司名稱： Innodisk Corporation 宜鼎國際股份有限公司

Company Representative 公司代表人： Randy Chien 簡川勝

Company Representative Title 公司代表人職稱： Chairman 董事長

Date 日期： 2021 / 06 / 09





## CERTIFICATE OF CONFORMITY

**Standard:** ICES-003:2020 Issue 7, Class B  
 ICES-Gen:2018 Issue 1 +A1:2021  
 ANSI C63.4-2014 amended as per ANSI C63.4a-2017

**Report No.:** CIBDBO-WTW-P22070395

**Model No.:** EMPL-G#N1  
 #: Output items: (1: 1Port, 2: 2Ports)

**Received Date:** 2022/7/13

**Test Date:** 2022/7/18 ~ 2022/7/24

**Issued Date:** 2022/8/17

**Applicant:** Innodisk Corporation

**Address:** 5F., No. 237, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City 221005, Taiwan (R.O.C.)

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
 Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Approved by:** Jim Hsiang, **Date:** 2022/8/17  
 Jim Hsiang / Associate Technical Manager

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Prepared by : Ivy Lin / Specialist

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## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart B, Class B  
ANSI C63.4:2014

**Report No.:** FDBDBO-WTW-P22070395

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**Test Location:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**FCC Registration /**

**Designation Number:** 418586 / TW1078

Approved by: Jim Hsiang, Date: 2022/8/17  
Jim Hsiang / Associate Technical Manager

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Prepared by : Ivy Lin / Specialist

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# CERTIFICATE OF CONFORMITY



**Product** : mPCIe to dual GbE LAN single board module  
**Brand** : Innodisk  
**Model No.** : EMPL-G#N1  
 #: Output items: (1: 1Port, 2: 2Ports)  
**Applicant** : Innodisk Corporation  
**Report No.** : CEBDBO-WTW-P22070395

We, **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, declare that the equipment above has been tested in our facility and found compliance with the requirement limits of applicable standards, in accordance with the Directive 2014/30/EU. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate under the standards herein specified.

**EN 55032:2015 +A11:2020, Class B**  
**EN 61000-3-2:2014 (Not Applicable)**  
**EN IEC 61000-3-2:2019 +A1:2021 (Not Applicable)**  
**EN 61000-3-3:2013 +A2:2021 (Not Applicable)**  
**EN 55035:2017 +A11:2020**  
 EN 61000-4-2:2009 / IEC 61000-4-2:2008 ED. 2.0  
 EN 61000-4-3:2006 +A1:2008 +A2:2010 / IEC 61000-4-3:2010 ED. 3.2  
 EN IEC 61000-4-3:2020 / IEC 61000-4-3:2020 ED. 4.0  
 EN 61000-4-4:2012 / IEC 61000-4-4:2012 ED. 3.0  
 EN 61000-4-5:2014 +A1:2017 / IEC 61000-4-5:2017 ED. 3.1 (Not Applicable)  
 EN 61000-4-6:2014+AC:2015 / IEC 61000-4-6:2013 ED. 4.0  
 EN 61000-4-8:2010 / IEC 61000-4-8:2009 ED. 2.0  
 EN 61000-4-11:2004 +A1: 2017 / IEC 61000-4-11:2017 ED. 2.1 (Not Applicable)  
 EN IEC 61000-4-11:2020 / IEC 61000-4-11:2020 ED. 3.0 (Not Applicable)

**NOTE:** The above EN/IEC basic standards are applied with latest version if customer has no special requirement.

*Jim Hsiang*

Jim Hsiang / Associate Technical Manager  
2022/8/17



No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan  
 Tel: 886-2-26052180 Fax: 886-2-26051924  
<http://www.bureauveritas-adt.com> E-Mail: [service.adt@tw.bureauveritas.com](mailto:service.adt@tw.bureauveritas.com)

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We, **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, declare that the equipment above has been tested in our facility and found compliance with the requirement limits of applicable standards, in accordance with the Electromagnetic Compatibility Regulations 2016 (S.I. 2016/1091). The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate under the standards herein specified.

**BS EN 55032:2015 +A11:2020, Class B**  
**BS EN 61000-3-2:2014 (Not Applicable)**  
**BS EN IEC 61000-3-2:2019+A1:2021 (Not Applicable)**  
**BS EN 61000-3-3:2013+A2:2021 (Not Applicable)**  
**BS EN 55035:2017 +A11:2020**  
 BS EN 61000-4-2:2009 / IEC 61000-4-2:2008 ED. 2.0  
 BS EN 61000-4-3:2006 +A1:2008 +A2:2010 / IEC 61000-4-3:2010 ED. 3.2  
 BS EN IEC 61000-4-3:2020 / IEC 61000-4-3:2020 ED. 4.0  
 BS EN 61000-4-4:2012 / IEC 61000-4-4:2012 ED. 3.0  
 BS EN 61000-4-5:2014 +A1:2017 / IEC 61000-4-5:2017 ED. 3.1 (Not Applicable)  
 BS EN 61000-4-6:2014 +AC:2015 / IEC 61000-4-6:2013 ED. 4.0  
 BS EN 61000-4-8:2010 / IEC 61000-4-8:2009 ED. 2.0  
 BS EN 61000-4-11:2004 +A1: 2017 / IEC 61000-4-11:2017 ED. 2.1 (Not Applicable)  
 BS EN IEC 61000-4-11:2020 / IEC 61000-4-11:2020 ED. 3.0 (Not Applicable)

**NOTE:** The above BS EN/IEC basic standards are applied with latest version if customer has no special requirement.

*Jim Hsiang*

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2022/8/17



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