

M.2 B,M key 1 port 2.5G BASE-T Network Card

User Manual

Ver.1

For latest manual and driver update: Please visit https://www.sunix.com by searching "M2L1225"

Introduction

SUNIX M2L1225 is a single port network card based on 2.5G Base-T which meets the high bandwidth requirement. Equipped with intel 1225 network chip, M2L1225 allows enterprise users to expand the intel vPro capability for various network applications. M2L1225 is designed with a M.2 mainboard and daughterboard configuration, it is suitable for applications in compact chassis, makes it easier for your compact chassis devices to expand their network capabilities.

Features

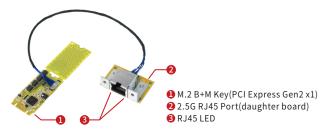
- · Integrated MAC/PHY supporting 10BASE-Te, 100BASE-TX, 1000BASE-T & 2500BASE-T 802.3 spec.
- · Support 1-Lane 5Gbps PCI Express Bus
- · Transmit/Receive on-Chip buffer support
- · Advanced Configuration and Power Interface (ACPI) specification v2.0c.
- · Support intel vPRO.
- · Support ASPM L0s
- · Support M.2 B+M key 2242 and 2280 length requirement.

Package Checklist

Please check if the following items are present and in good condition upon opening package. Contact your vendor if any item is damaged or missing.

- M2L1225 M.2 B,M key 1 port 2.5G BASE-T Network Card
- 250mm board to board cable
- Daughter board

Hardware Guide





LED Function	A	В
10/100bps		OFF
1Gbps	Green - ON = Linking Green - Blink = Transfering	Green
2.5Gbps	orcen bank - Italisiering	Yellow

Specification

-							
Model	M2l	1225	7	Operating Environment			
Description	M.2	M.2 B,M key 1 port 2.5G BASE-T Network Card		Temperature		0 to 60 °C (32 to 140 °F)	
Chipset	Inte	Intel I225LM		Humidity		< 85% non-condensing	
Interface	M.2	B+M Key(PCI Express Gen2 x1)		Storage temp.		-10 °C ~ 85 °C (14~176°F)	
Port	RJ4	5 (2.5GbE) x 1(daughter board)	1	Regulatory Approvals			
Standard	IEEE	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab/az/bz IEEE 802.1Q VLAN Tagging, IEEE 802.1ad Double VLAN		Regulatory Approvais			
				EMC	CE, FCC, VCCI, BSMI		
Network Media	10B	.0BASE-T: UTP category 3, 4, 5 cable (maximum 100m)		Green	RoHS, WEEE		
	100	100BASE-TX: UTP category 5, 5e cable (maximum 100m)					
	100	1000Base-T: UTP category 5, 5e cable (maximum 100m)		O.S Support			
	250	2500Base-T: UTP category 5e, 6 cable (maximum 100m)		Microsoft	Windows 10 \ 11(X86/X64)		
Data Rates	10/	10/100/1000/2500Mbps		-			
PCB Dimension		Main board: 80(42) x22 x0.8 mm		Linux	Linux	5.8 and above	
		Daughter board: 24x337.75x1.6mm					
Cable		250 mm	٦				

Hardware Installation



SAFETY FIRST

To avoid damages, please make sure to remove any power connection before card installation, and follow the detailed steps given below before inserting the card into your computer.

Step 1: Remove the screw attached to the motherboard.

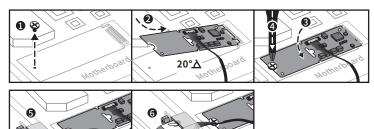
Step 2: Insert M.2 Card tightly into the M.2 slot with 20° angle. (SUNIX M.2 Card supports Key-M and Key-B slot)



Step 4: Lock screw on M.2 card that you remove from motherboard in step1.

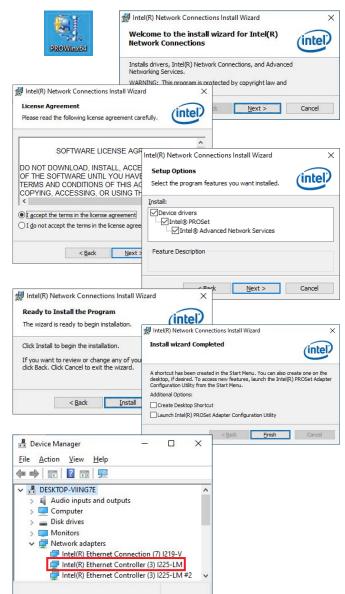
Step 5: Secure the daughter board onto PC chassis.

Step 6: Insert your internet cable to finish the network installation



Driver Installation

SUNIX M2L1225 2.5G Network card supports Windows and Linux operation system. Users can install the driver via the latest driver from official SUNIX website.



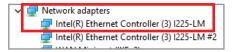
Hardware Verify

To mark sure network card installed ready, user can verify in the device manager. (1). Click on the "**Device Manager**" tab in the Windows Control Panel

Start > Control Panel > Device Manager



(2). Please entry "Network adapters" catalog, and "Intel(R) Ethernet Controller (3) 1225-LM" shows in the device manager.

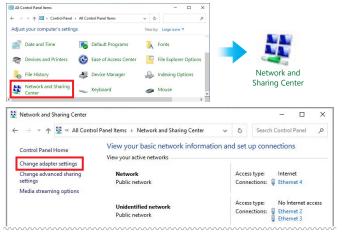


Network Setting

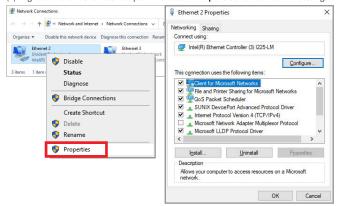
User can set 2.5G networking setting from the following instructions.

(1). Click on the "Network and Internet" tab in the Windows Control Panel

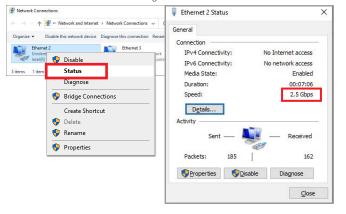
Start > Control Panel > Network and Internet > Network and Sharing Center



(2). Right click the "Ethernet" adapter and select "Properties" to set network settings.



(3). Right click the "Ethernet" adapter used by the network card, and select "Status" from the menu to affirm network settings.



Connection

· To ensure the better transfer performance, please use the CAT5E or higher grade network cable.

Troubleshooting

Q 1. My computer can NOT detect Network Ethernet card.

 $\textbf{Ans:a.} \ \textbf{Make sure the network card is correctly plugged into PCI Express slot}.$

- If not, turn off your computer and try another PCI Express slot.
- b. If the network card is plugged correctly, please check card's golden connectors (finger) is clean; if not, clean golden connectors (finger) surface by eraser.
- c. Please upgrade your motherboard BIOS to the least version.
- d. If above operations are useless, please try another PC desktop to check board itself is workable or not.
- ${\bf Q\,2.}$ How to deal with yellow exclamation mark on Ethernet Controller?



Ans:If there's an Ethernet Controller shows yellow exclamation mark in the device manager, please try to re-install driver again by following driver installation guide. If problem still happens, please try install network card into another PCI Express slot.

Q 3. I cannot get 2.5G Ethernet transfer performance.

Ans: Please make sure your networking environment supporting 2.5G hardware infrastructure, including Ethernet Switch and category 5e or higher level cable.

Q 4. How to configure 10/100/1000/2500 Ethernet settings?

Ans: PCIe Networking card is able to automatically sense and operate on either speed without manual reconfiguration. Just connect the correct Ethernet cable between PCIe card and Networking Switch or router, and then user would get the best performance.

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