

User Manual



UNO-3272G 電腦

Intel® Celeron J1900 processors Embedded Automation Computer, with PCIe/PCI Extension slots



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This manual applies to the below model which is abbreviated as UNO-3272G products in this article.

*Model number:

UNO-3272G-J021AE

UNO-3272G

UNO3272GJ0211901-T, UNO3272GJ0211902-T, UNO3272GJ0211903-T, UNO3272GJ0212001-T, UNO3272GJ0212002-T, UNO3272GJ0212003-T, UNO3272GJ0212004-T, UNO3272GJ0212005-T, UNO3272GJ0212006-T, UNO3272GJ0212101-T, UNO3272GJ0212102-T, UNO3272GJ0212103-T, UNO3272GJ0212104-T, UNO3272GJ0212105-T, UNO3272GJ0212106-T, UNO3272GJ0212201-T, UNO3272GJ0212202-T, UNO3272GJ0212203-T, UNO3272GJ0212204-T, UNO3272GJ0212205-T, UNO3272GJ0212206-T, UNO3272GJ0212301-T, UNO3272GJ0212305-T, UNO3272GJ0212303-T, UNO3272GJ0212304-T, UNO3272GJ0212305-T, UNO3272GJ0212306-T, UNO3272GJ0212401-T, UNO3272GJ0212402-T, UNO3272GJ0212406-T, UNO3272GJ0212501-T, UNO3272GJ0212505-T, UNO3272GJ0212503-T, UNO3272GJ0212501-T, UNO3272GJ0212505-T, UNO3272GJ0212503-T, UNO3272GJ0212504-T, UNO3272GJ0212505-T, UNO3272GJ0212506-T,

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Product Warranty (2 years)

Advantech warrants to you, the original purchaser, that each of its products will be free from defects in materials and workmanship for two years from the date of purchase.

This warranty does not apply to any products which have been repaired or altered by persons other than repair personnel authorized by Advantech, or which have been subject to misuse, abuse, accident or improper installation. Advantech assumes no liability under the terms of this warranty as a consequence of such events.

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- 5. Write the RMA number visibly on the outside of the package and ship it prepaid to your dealer.

Declaration of Conformity

CE

This product has passed the CE test for environmental specifications when shielded cables are used for external wiring. We recommend the use of shielded cables. This kind of cable is available from Advantech. Please contact your local supplier for ordering information.

FCC Class A

Note: 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 a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

警告使用者:這是甲類資訊產品,在居住的環境中使用時,可能會造成射頻干擾,在 這種情況下,使用者會被要求採取某些適當對策。

Technical Support and Assistance

- 1. Visit the Advantech web site at http://support.advantech.com where you can find the latest information about the product.
- 2. Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:
 - Product name and serial number
 - Description of your peripheral attachments
 - Description of your software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wording of any error messages

Safety Precaution - Static Electricity

Follow these simple precautions to protect yourself from harm and the products from damage.

- To avoid electrical shock, always disconnect the power from your PC chassis before you work on it. Don't touch any components on the CPU card or other cards while the PC is on.
- Disconnect power before making any configuration changes. The sudden rush of power as you connect a jumper or install a card may damage sensitive electronic components.

Safety Instructions

- 1. Read these safety instructions carefully.
- 2. Keep this User Manual for later reference.
- 3. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
- 4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
- 5. Keep this equipment away from humidity.
- 6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage.
- 7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
- 8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- 9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- 10. All cautions and warnings on the equipment should be noted.
- 11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
- 12. Never pour any liquid into an opening. This may cause fire or electrical shock.
- 13. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
- 14. If one of the following situations arises, get the equipment checked by service personnel:
- The power cord or plug is damaged.
- Liquid has penetrated into the equipment.
- The equipment has been exposed to moisture.
- The equipment does not work well, or you cannot get it to work according to the user's manual.
- The equipment has been dropped and damaged.
- The equipment has obvious signs of breakage.
- 15. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE MAY GO BELOW -20° C (-4° F) OR ABOVE 60° C (140° F). THIS COULD DAMAGE THE EQUIPMENT. THE EQUIPMENT SHOULD BE IN A CONTROLLED ENVIRONMENT.
- 16. Batteries are at risk of exploding if incorrectly replaced. Replace only with the same or equivalent type as recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.
- 17. Danger d'explosion si la batterie est mal remplace. Remplacer uniquement par le meme type ou equivalent recommandé par le fabricant. Jeter les piles usagées selon les instructions du fabricant.
- 18. The sound pressure level at the operator's position according to IEC 704-1:1982 is no more than 70 dB (A).

DISCLAIMER: This set of instructions is given according to IEC 704-1. Advantech disclaims all responsibility for the accuracy of any statements contained herein.

Consignes de sécurité

- 1. Lire attentivement les instructions de sécurité.
- 2. Conserver ce manuel pour utilisation ultérieure,
- 3. Débranchez cet équipement de toute prise secteur avant de le nettoyer. Utilisez seulement un chiffon humide. N'utilisez pas de détergent liquide ou pulvérisé pour le nettoyage.
- 4. Gardez cet équipement à l'abri de l'humidité.
- 5. Placez cet équipement sur une surface fiable pendant l'installation. Le faire ou bien le laisser tomber peut causer des dégâts.
- 6. Les ouvertures sur l'enceinte servent à la convection de l'air. Protégez l'équipement contre la surchauffe. NE COUVREZ PAS LES OUVERTURES.
- 7. Assurez-vous que la tension de la source d'alimentation est correcte avant de connecter l'équipement à l'alimentation.
- 8. Placez le câble d'alimentation de manière à ce que personne ne puisse marcher dessus. Ne placez rien sur le câble d'alimentation.
- 9. Toutes les mises en garde et tous les avertissements sur l'équipement doivent être notés.
- 10. Si l'équipement n'est pas utilisé pendant une longue période, débranchez-le de la source d'alimentation pour éviter tout endommagement dû à une surtension transitoire.
- 11. Ne jamais verser de liquide dans une ouverture. Cela pourrait provoquer un incendie ou un choc électrique.
- 12. N'ouvrez jamais l'équipement. Pour des raisons de sécurité, l'équipement doit être ouvert uniquement par du personnel qualifié.
- 13. Si l'une des situations suivantes se présente, faites vérifier l'équipement par le personnel de service:
- Un liquide a pénétré dans l'équipement.
- L'équipement a été exposé à l'humidité.
- L'équipement ne fonctionne pas bien, ou vous ne pouvez pas le faire fonctionner selon le manuel de l'utilisateur.
- L'équipement est tombé et endommagé.
- L'équipement présente des signes évidents de rupture.
- 14. NE LAISSEZ PAS CET ÉQUIPEMENT DANS UN ENVIRONNEMENT OU LA TEMPÉRATURE DE STOCKAGE PEUT ÊTRE INFÉRIEURE À -20 ° C (-4 ° F) OU BIEN SUPÉRIEURE À 60 ° C (140 ° F). CECI POURRAIT ENDOMMAGER L'EQUIPEMENT. L'ÉQUIPEMENT DEVRAIT ÊTRE DANS UN ENVI-RONNEMENT CONTRÔLÉ.

安全指示

- 1. 請仔細閱讀此安全操作說明。
- 2. 請妥善保存此用戶手冊供日後參考。
- 用濕抹布清洗設備前,請確認拔除電源線。請勿使用液體或去污噴霧劑清洗設備。
- 4. 對於使用電源線的設備,設備周圍必須有容易接觸到的電源插座。
- 5. 請勿在潮濕環境中試用設備。
- 6. 請在安裝前確保設備放置在可靠的平面上,意外摔落可能會導致設備損壞。
- 7. 設備機殼的開孔適用於空氣對,從而防止設備過熱。請勿覆蓋開孔。
- 8. 當您連接設備到電源插座前,請確認電源插座的電壓符合要求。
- 9. 請將電源線佈置在人們不易絆倒的位置,請勿在電源線上覆蓋任何雜物。
- 10. 請注意設備上所有的警告標示。
- 11. 如果長時間不使用設備,請拔除與電源插座的連結,避免設備被超標的電壓波動 損壞。
- 12. 請勿讓任何液體流入通風口,以免引起火灾或短路。
- 13. 請勿自行打開設備。為了確保您的安全,請透過經認證的工程師來打開設備。
- 14. 如遇下列情况,請由專業人員維修:
- 電源線或插頭損壞;
- 設備內部有液體流入;
- 設備曾暴露在過度潮濕環境中使用;
- 設備無法正常工作,或您無法透過用戶手冊來正常工作;
- 設備摔落或損壞;
- 設備有明顯外觀損;
- 15. 請勿將設備放置在超出建議溫度範圍的環境,即不要低於 20 ℃ (-4 °F) 或高於 60 ℃ (140 °F),否則可能會造成設備損壞。
- 16. 注意:若電池更換不正確,將有爆炸危險。因此,只可以使用製造商推薦的同一 種或者同等型號的電池進行替換。請按照製造商的指示處理舊電池。
- 17. 本產品於國內裝置使用時,其電源僅限使用機架電源模組所提供直流電源輸入, 不得使用交流電源及附加其他電源轉換裝置提供電源,其電源輸入電壓及電流請 依說明書規定使用。
- 18. 根據 IEC 704 1:1982 規定,操作員所在位置音量不可高於 70 分貝。
- 19. 限制區域:請勿將設備安裝於限制區域使用。
- 20. 免責聲明:請安全訓示符合 IEC 704-1 要求。研華公司對其內容之準確性不承 擔任何法律責任。

Warnings, Cautions and Notes



Warning! Warnings indicate conditions, which if not observed, can cause personal injury!



Caution! Cautions are included to help you avoid damaging hardware or losing data. e.g.



There is a danger of a new battery exploding if it is incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.



Notes provide optional additional information.



CONTENTS

Chapter	1	Overview1
	1.1 1.2	Introduction 2 Hardware Specifications 2 1.2.1 General 2 1.2.2 Display 2 1.2.3 Ethernet 2
	1.3	Chipset
	1.4	Mechanical Specifications
	1.5	1.4.2Weight4Power Requirements41.5.1System power41.5.2RTC battery4
	1.6	Environment Specification41.6.1Operating temperature41.6.2System safety certification test temperature41.6.3Relative humidity41.6.4Storage temperature41.6.5Vibration during operation51.6.6Shock during operation51.6.7Safety51.6.8EMC5
Chapter	2	H/W Installation7
	2.1	Introduction
	2.2	Jumpers
	2.3	Table 2.4: Jumper List (motherboard)11Connectors122.3.1 External I/O Connectors12Figure 2.5 UNO-3272G Front View12Figure 2.6 COM Connector13Table 2.5: COM Connector Pin Assignments13Figure 2.7 LAN Connector14Table 2.6: Ethernet Connector Pin Assignments14Table 2.7: LED Indicators14Figure 2.8 Audio Connector15Table 2.8: Audio Connector Pin Assignments15Figure 2.9 USB 2.0 Connector15Table 2.9: USB 2.0 connector15Figure 2.9: USB 3.0 Connector15Figure 2.10USB 3.0 Connector15
		Table 2.10: USB 3.0 connector Pin Assignments

		Figure 2.11VGA Connector	16
		Table 2.11: VGA Connector Pin Assignments	16
		Figure 2.12HDMI Connector	16
		Table 2.12: HDMI Connector Pin Assignments	16
		Figure 2.13Power Connector	17
		Table 2.13: Pin Assignments for Power Connector Pin Header	r 17
		Table 2.14: DI/ DO Pin Assignments	17
		Table 2.15: DI/DO switch	18
		Figure 2.14 Isolated DI Dry connection	18
		Figure 2.15Isolated DI Wet connection	19
		Figure 2.16Isolated Digital Output Connection	19
	2.3.2	Internal I/O Connectors	20
		Table 2.16: PCIE Connector Pin Assignments	20
2.4	Install	ation	20
	2.4.1	HDD installation	20
	2.4.2	Memory & M.2 storage installation	23
	2.4.3	iDOOR Installation	24
	2.4.4	DI/O card Installation (Optional)	25
	2.4.5	PCI/ PCIe Installation (Optional)	27
	2.4.6	FAN-kit Installation (Optional)	28
	2.4.7	Riser card (change) Installation	30
	2.4.8	Mounting kit Installation (Optional)	31

3.1	Introd	uction	
3.2	Enteri	ng Setup	
	3.2.1	Main Setup	
	3.2.2	Advanced BIOS Features Setup	
	3.2.3	Chipset	
	3.2.4	Security	
	3.2.5	Boot	
	3.2.6	Save & Exit	



Overview

This chapter provides an overview of UNO-3272G' specifications.

- Sections include:
- Introduction
- Hardware specification
- Chassis dimensions
- Accessories

1.1 Introduction

Advantech Embedded Automation PC UNO-3272G models are configured with Intel® Celeron® J1900 2.0GHz processor and 4G RAM. It supports two PCI or PCI express slots, which can fulfill extensive requirements in various applications.

The UNO-3272G provide a rich array of interfaces, including 4 x USB, 2 x GigaLAN, 2 x RS-232/422/485, and 2 x RS-232 ports as well as VGA and HDMI display interfaces, UNO-3272G is designed to deliver high reliability and maximum flexibility for industrial automation applications. The provision of up to 2 expansion slots (2 x PCIex1 or 2 x PCI) supports the integration of modular peripherals and ensures flexible installation in diverse cabinet configurations.

With support for multiple drivers and operating systems, including Windows 7, Windows 10, and Linux, users can easily integrate applications on application-ready platforms in order to offer versatile functions for diverse requirements.

1.2 Hardware Specifications

1.2.1 General

- CPU: Intel® Celeron® J1900 2.0GHz processor
- Memory: Built-in 4GB DDR3L 1333 MHz (Dual 204pin SODIMM DDR3L socket, up to 8GB)
- Storage:
 - Supports 1 drive bay space for SATA 2.5" HDD/SSD
 - Supports 1 x M.2 B-key (2242) up to 512GB
 - Supports 1 x CFast slot (By iDOOR Technology)
- Graphic: VGA + HDMI
- Ethernet Port: 2 x RJ45
- **TPM:** TPM2.0
- Watchdog Timer: Single chip Watchdog 255-level interval timer, setup by software
- I/O Interface: 2x RS232/422/485, 2x RS-232
- USB:
 - 3x USB2.0,
 - 1x USB3.0
- Audio: Line-out
- Expansion interface
 - 1x full-size mini PCIe (via USIM)

1.2.2 Display

- Resolution:
 - VGA: Supports up to 1920 x 1080 @ 60 Hz 24bpp
 - HDMI: Supports up to 1920 x 1080 @ 60 Hz 24 bpp

1.2.3 Ethernet

- Chipset:
 - 2x Intel® I211AT
 - Speed: 10/100/1000 Mbps
- Interface: 2 x RJ45
- **Standard:** Compliant with IEEE 802.3az.

Chapter 1 Overview

1.3 Chipset

1.3.1 Functional specification

1.3.1.1 Processor

Processor Intel® Celeron® J1900 2.0GHz processor

1.3.1.2 Chipset

		Supports DDR3L 1333 MHz (without ECC)
Memory		SODIMM Socket
		 260-pin SODIMM socket*2 (up to 8 GB)
		Intel® HD Graphics for Intel Atom® Processor Z3700 Series
		IO interface
Processor		 VGA: Supports resolutions up to 1920 x 1080 @ 60 Hz
Graphics		(VGA connector: On-board D-SUB 15P)
		 HDMI: Supports resolution up to 1920 x 1080 @ 60 Hz
		(HDMI Connector: On-board HDMI 19P)
		1x SATA Revision 3.0 ports 2.5" HDD/SSD
SATA Interface		1x NGFF M.2 M key, support 22x42
		Support OS storage and boot
		USB host interface for 3 x USB2.0 port /1 x USB3.0 port
USB Interface		Supports high-speed, full-speed, and low-speed capable
		Supports legacy keyboard/mouse software
Power	ver +10V~+36V DC Input Duel from 4pin plug connector	
Management	gement Power Connector: Plug-in block 4Px1	
BIOS		AMI 64Mb Flash BIOS via SPI

1.3.1.3 Others

	4xUART on front panel		
	COM1/2: Support to RS-232/422/485 and setting mode by		
	BIOS and supports auto flow control (The data rate of each serial port up		
Serial Ports	to 115.2k)		
	COM 3/4: Support to RS-232 (The data rate of each serial port up to		
	115.2k)		
	Serial ports connector: D-SUB CON.9P		
	LAN1: Intel® i211AT; LAN2: Intel® i211AT		
	Compliant with IEEE 802.3az.		
LAN	Supports 10/100/1000 Mbps		
	Supports Wake on LAN		
	Audio Codec: Realtek ALC888:		
Audio	Compliant with HD Audio specifications		
Audio	Supports to 16/20/24-bit DAC and 16/20/24-bit ADC resolution		
	1x audio Line-out phone jack on front panel		
Battery backup	BR2032 3V/190mAh		

1.4 Mechanical Specifications

1.4.1 Dimensions



Figure 1.1 Dimensions

1.4.2 Weight

2.6 kg

1.5 Power Requirements

- 1.5.1 System power DC 10-36V_{DC}
- 1.5.2 RTC battery BR2032 3 V/190 mAh

1.6 Environment Specification

1.6.1 Operating temperature

-20 \sim 60 $^{\circ}\text{C}$ with 0.7m/sec air flow: with 1x Industrial SSD without PCI/PCIe expansion boards

1.6.2 System safety certification test temperature

0 ~ 40 °C with 2.5" HDD

1.6.3 Relative humidity

95% @ 40 °C (non-condensing)

1.6.4 Storage temperature

-40 ~ 85 °C (-40 ~ 185 °F)

1.6.5 Vibration during operation

- When system is equipped with SSD only: 2 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct/min., 1 hr/axis, x,y,z 3 axes.
- When system is equipped with 2.5-inch HDD: 0.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct/min., 1 hr/axis, x,y,z 3 axes.

1.6.6 Shock during operation

When system is equipped with SSD only: 30 G, IEC 60068-2-27, half sine, 11 ms duration.

1.6.7 Safety

UL/CB, CCC, BSMI

1.6.8 EMC

CE, FCC, CCC, BSMI

UNO-3272G User Manual



H/W Installation

This chapter introduces external IO and the installation of UNO-3272G hardware.

2.1 Introduction

The following sections show the internal jumper settings and the external connectors and pin assignments.



Figure 2.1 Motherboard Connector and jumper locations (top side)



Figure 2.2 Motherboard Connector and jumper locations (rear side)

Table 2.1: Motherboard Connector				
Location	Function	Location	Function	
CN3	LANA+USB3.0/2.0	CN16	Internal Power Switch/Reset	
CN4	LANB+USB2.0	CN18	M.2	
CN5	VGA	CN65	Power Input	
CN7	Internal USB2.0	MPCIE1	Mini PCIe	
CN8	SATA Power	SLOT1	PCIE Slot	
CN9	SIM Holder	D79	Power/SATA status LED	
CN10	COM1/2/3/4+Audio	SW1	Power Switch	
CN12	SATA	SW2	Reset	
CN13	DIDO	DIMM1	DDR Slot1	
CN15	Inverter Power	DIMM2	DDR Slot2	





Table 2.2: PCIE Connector		
Location	Function	
CN1	12V Power Output	
CN2	5V&12V Power Output	
CN3	PCIE2	
CN4	PCIE1	



Figure 2.4 COM card connector locations

Table 2.3: COM Connector		
Location	Function	
CN2	COM1/COM2	
CN3	COM3COM4	
CN4	MIC IN	
CN6	LINE Out	

2.2 Jumpers

Configure the UNO-3272G to match the needs of your application by setting jumpers. To close a jumper, you connect the pins with the clip. To open a jumper, you remove the clip. Sometimes a jumper will have three pins, labeled 1, 2 and 3. In this case you would connect either pins 1 and 2, or 2 and 3.



The jumper settings are schematically depicted in this manual as follows.



A pair of needle-nose pliers may be helpful when working with jumpers. If you have any doubts about the best hardware configuration for your application, contact your local distributor or sales representative before you make any changes. Generally, you simply need a standard cable to make most connections.

2.2.1 Jumper list

Table 2.4: Jumper List (motherboard)		
Location	Function	
CN1	Clear CMOS	
CN14	System AT/ATX mode option	

2.2.1.1 Clear CMOS

UNO-3272G mainboard contains a jumper that can erase CMOS data and reset the system BIOS information. Normally this jumper should be set with pins 1-2 closed. If you want to reset the CMOS data, set CMOS1 to 2-3 closed for just a few seconds, and then move the jumper back to 1-2 closed. This procedure will reset the CMOS to its default setting.

CMOS1	Clear CMOS
Footprint	3x1 Pin
Setting Function	Function
(1-2)	Normal (default)
(2-3)	Clear CMOS

2.2.1.2 System AT/ATX mode function option

UNO-3272G supports AT or ATX mode and default is ATX module. If you want to change to AT mode you can find AT/ATX mode jumper on the motherboard.

PSON1	System AT/ATX mode option
FootPrint	3x1 Pin
Setting Function	Function
(1-2)	AT mode
(2-3)	ATX mode

2.3 Connectors

2.3.1 External I/O Connectors



Figure 2.5 UNO-3272G Front View

2.3.1.1 COM connector

UNO-3272G provides four 9-pin D-sub connectors, two of which offer RS-232/422/ 485 and the other two offer RS-232 serial communication interface ports. Default setting is RS-232, but this can be modified by BIOS setting. You can find detailed setting methods in Chapter 3.



Figure 2.6 COM Connector

Table 2.5: COM Connector Pin Assignments			
	RS-232	RS-422	RS-485
Pin	Signal Name	Signal Name	Signal Name
1	DCD	TX-	DATA-
2	RXD	TX+	DATA+
3	TXD	RX+	-
4	DTR	RX-	-
5	GND	GND	GND
6	DSR	-	-
7	RTS	-	-
8	CTS	-	-
9	RI	-	-



NC represents "No Connection".



2.3.1.2 Ethernet connector (LAN)

UNO-3272G is equipped with two Ethernet controllers that are fully compliant with IEEE 802.3u 10/100/1000 Mbps CSMA/CD standards. LANA &LANB are equipped with Intel i211. The Ethernet port provides a standard RJ45 jack connector with LED indicators on the front side to show its Active/Link status and Speed status.



Figure 2.7 LAN Connector

Table 2.6: Ethernet Connector Pin Assignments				
Pin	Signal Name	Desc	ription	
1	MDI0+		In BASE-T: Media Dependent Interface[0]:	
2	MDI0-	•	1000BASE-T: In MDI configuration, MDI[0]+/- corresponds to BI_DA+/- and in MDI-X configu- ration MDI[0]+/- corresponds to BI_DB+/ 10BASE-T and 100BASE-TX: In MDI configura- tion, MDI[0]+/- is used for the transmit pair and in MDIX configuration MDI[0]+/- is used for the receive pair.	
3	MDI1+		In BASE-T: Media Dependent Interface[1]:	
6	MDI1-	•	1000BASE-T: In MDI configuration, MDI[1]+/- corresponds to BI_DB+/- and in MDI-X configu- ration MDI[1]+/- corresponds to BI_DA+/ 10BASE-T and 100BASE-TX: In MDI configura- tion, MDI[1]+/- is used for the receive pair and in MDI-X configuration MDI[1]+/- is used for the transmit pair.	
4	MDI2+		In BASE-T: Media Dependent Interface[3:2]:	
5	MDI2-	-	1000BASE-T: In MDI and in MDI-X configuration,	
7	MDI3+	-	- corresponds to BI_DD+/	
8	MDI3-	1	100BASE-TX: Unused. 10BASE-T: Unused.	

Table 2.7: LED Indicators				
	Left LI	ED	Right LED	
10 Link	100 Left	1000 Link	Active	
Off	Orange	Green	Green	

2.3.1.3 Audio connector

UNO-3272G has only one stereo audio ports with phone jack connectors- Line_Out. The audio chip is controlled by ACL888-VD2, and it's compliant with AZALIA standard.



Figure 2.8 Audio Connector

Table 2.8: Audio Connector Pin Assignments			
Pin	Audio signal Name		
1	Line_out		

2.3.1.4 USB 3.0 connector

UNO-3272G provides one USB 3.0 & three USB2.0 interface connectors, which give complete Plug & Play and hot swapping for up to 127 external devices. The USB interface complies with USB XHCI, Rev. 3.0. Please refer to the table below for pin assignments.



Figure 2.9 USB 2.0 Connector

Table	2.9: USB 2.0 connector Pin Assignments	
1	VCC	
2	DATA-	
3	DATA+	
4	GND	



Figure 2.10 USB 3.0 Connector

Table 2.10: USB 3.0) connector Pin Assignments
1	VCC
2	USB Data -
3	USB Data +
4	GND
5	SSRX-
6	SSRX+
7	GND
8	SSTX-
9	SSTX+

2.3.1.5 VGA connector

The UNO-3272G provides a high resolution VGA interface with a 15-pin D-sub connector to support a VGA CRT monitor. It supports display resolution of up to 1920 x 1080 @ 60 Hz.



Figure 2.11 VGA Connector

Table 2.11: VGA Connector Pin Assignments					
Pin	Signal Name	Pin	Signal Name		
1	Red	2	Green		
3	Blue	4	NC		
5	GND	6	GND		
7	GND	8	GND		
9	+5V	10	GND		
11	NC	12	DDC_DAT		
13	H-SYNC	14	V-SYNC		
15	DDC_CLK				

2.3.1.6 HDMI Connector

UNO-3272G provides a high resolution HDMI, It supports display resolution of up to 1920 x 1080 @ 60 Hz.



Figure 2.12 HDMI Connector

Table 2.12: HDMI Connector Pin Assignments				
Pin	Signal Name	Pin	Signal Name	
1	TMDS Data2+	2	TMDS Data2 Shield	
3	TMDS Data2-	4	TMDS Data1+	
5	TMDS Data1 Shield	6	TMND Data1-	
7	TMDS Data0+	8	TMDS Data0 Shield	
9	TMDS Data0-	10	TMDS Clock+	
11	TMDS Clock Shield	12	TMDS Clock-	
13	NL	14	Reserved	
15	SCL	16	SDA	
17	DDC/CEC/HEC Gound	18	+5V Power (max 50mA)	
19	Hot Plug Detect			

Chapter 2 H/W Installation

2.3.1.7 Power Input Connector

UNO-3272G comes with a four-pin header as default that carries 10VDC - 36VDC external dual power input. This product is intended to be supplied by a UL Listed DC Power Source, rated 10-36Vdc, 6.5-1.8A and Tma 40 degree C, if need further assistance, please contact Advantech for further information (Ensure to connect the power cord to a socket-outlet with earthing connection).



Figure 2.13 Power Connector

Table 2.13: Pin Assignments for Power Connector Pin Header			
Pin	Signal Name		
1	+VDC1		
2	+VDC2		
3	GND (Power GND)		
4	Chassis GND		

2.3.1.8 Power ON/OFF button & LED indicators

UNO-3272G comes with a Power On/ Off button with LED indicators on the front side to show its On status (Green LED) and Off/Suspend status (Yellow LED), that supports dual function of Soft Power-On/Off and suspend.

2.3.1.9 Digital power input/ output (Optional)

UNO-3272G provide optional DI/O functions by ordering additional P/N: UNO-3000-DIOAE.



Table 2.14: DI/ DO Pin Assignments			
Pin	Signal Name	Description	
1	DO0	Isolated digital output	
2	DO1	Isolated digital output	
3	DO2	Isolated digital output	
4	DO3	Isolated digital output	
5	PCOM	Freewheeling common diode for IDO	

Table 2.1	Table 2.14: DI/ DO Pin Assignments				
6	D10	Isolated digital input			
7	DI1	Isolated digital input			
8	DI2	Isolated digital input			
9	DI3	Isolated digital input			
10	DGND	External common of IDI0~3			



Table 2.15: DI/DO switch			
	Dry Contact	Wet Contact	
1	OFF	ON	
2	ON	OFF	

Default: Dry contact

Isolated Digital Input Each of the 4 isolated digital input channels accept voltages from 0 to 30 V. Every four input channels share one external common. (Pin1-4 use PCOM and DGND, Pin 6-9 use DGND) The following figure shows how to connect an external input source to the card's isolated inputs.



Figure 2.14 Isolated DI Dry connection



Figure 2.15 Isolated DI Wet connection

Isolated Digital Output If the external voltage source (5~40 V) is connected to each isolated output channel (IDO) and its isolated digital output turns on (200 mA max./ ch), the card's current will sink from the external voltage source. The following figure shows how to connect an external output load to the card's isolated outputs.



Figure 2.16 Isolated Digital Output Connection

2.3.2 Internal I/O Connectors

Table 2.16: PCIE Connector Pin Assignments					
	CN1	CN2	FAN1		
Pin	Signal Name	Signal Name	Signal Name		
1	GND	+V12	+V12		
2	GND	GND	GND		
3	+V12	GND	NC		
4	+V12	+5V			

2.4 Installation

2.4.1 HDD installation

UNO-3272G supports 1 HDD/ SDD installation. The following steps demonstrate how to install 2.5" storage.

1. Remove 8 screws from top and side cover of UNO



2. Remove the 4 screws on rear cover of UNO.



3. Take off the HDD/SSD tray from rear cover inside.



4. Secure the HDD with 4 pcs reserved screws in the accessory package.



5. Slide down the tray and replace all the screws and put the cover back.



2.4.2 Memory & M.2 storage installation

UNO-3272G has default build-in 4G RAM, but can support up to 8GB by adding additional 4G Memory; UNO-3272G also provides M.2 B-key storage with up to 512 GB. Following steps demonstrate how to install additional RAM and M.2 Storage.

1. Remove the 8 screws from the top and side cover of UNO, install the RAM module and M.2 storage as below:



2. Replace all screws and put the cover back.

2.4.3 iDOOR Installation

UNO-3272G supports 1 x iDOOR expansion by utilizing the mPCIe interface. The following steps demonstrate how to install the iDOOR module with the mPCIe card.

1. Remove 8 screws from top and side cover of UNO, install the mPCIe module as below:



2. Remove iDOOR screws on front panel and take off the iDOOR plate from UNO.



- 3. Remove the iDOOR plate and attach the iDOOR module you selected.
- 4. Screw back the iDOOR module back on UNO.



2.4.4 DI/O card Installation (Optional)

UNO-3272G allows 4 x DI/DO by ordering additional DIO cards (PN: UNO-3000-DIOAE). Follow these steps to demonstrate how to install a DI/O card.

1. Remove the rubber and punch out from the reserved DI/O holes.



2. Fix the DI/O card by replacing the 2 screws on accessory package.



3. Connect DI/O cable as below (Motherboard: CN13).



2.4.5 PCI/ PCIe Installation (Optional)

UNO-3272G provides 2 x PCIex1 expansion slots for add-on cards. Follow the steps for how to install add-on cards.

1. Remove 8 screws from the top and side cover of UNO as well as the PCI/PCIe bracket.



2. Plug in add-on card as below and fix the card by replacing the screws.



2.4.6 FAN-kit Installation (Optional)

The following steps demonstrate how to install an optional fan kit (PN: UNO-3000-FANAE)

1. Remove 8 screws from the top and side cover of UNO and take out the filter.



2. Remove 4 screws on the top cover.



Chapter 2 H/W Installation

3. Fix the fan-kit by replacing the 4 screws.



4. Connect power cable as below.



2.4.7 Riser card (change) Installation

UNO-3272G provides other riser cards (2 x PCI) for different applications.

1. Pull out the current riser card and remove the copper pillars from the chassis.



2. Plug in the new riser card then replace the 5 screws.



2.4.8 Mounting kit Installation (Optional)

UNO-3272G supports wall mount and stand mount. Optional mounts (PN:UNO-3000-WMKAE).

2.4.8.1 Wall Mounting

1. Remove the screws from UNO chassis then fix the mounting kit on UNO using the same screws (M4*5L*4 Pcs).



2. Install UNO-3272G on the wall by replacing the 4 screws.



2.4.8.2 Stand Mounting

1. Remove the screws from the UNO chassis then fix the mounting kit on UNO using same screws.



2. Install UNO-3272G by replacing the 4 screws





AMI BIOS Setup

This chapter introduces how to set BIOS configuration data.

3.1 Introduction

With the AMI BIOS Setup program, you can modify BIOS settings and control the special features of your computer. The Setup program uses a number of menus for making changes and turning special features on or off. This chapter describes the basic navigation of the UNO-3272G setup screens.

3.2 Entering Setup

Press the "Del" or "Esc." key during the Power On Self Test (POST) process to enter the BIOS setup screen, otherwise the system will continue the POST process.

3.2.1 Main Setup

When you first enter the BIOS Setup Utility, you will enter the Main setup screen. You can always return to the Main setup screen by selecting the Main tab. There are two Main Setup options. They are described in this section. The Main BIOS Setup screen is shown below.

Aptio Setup Utility – Main Advanced Chipset Security (Copyright (C) 2019 American Boot Save & Exit	Megatrends, Inc.
BIOS Information BIOS Vendor Core Version Compliancy Project Version Build Date and Time Memory Information Total Memory	American Megatrends 5.0.1.0 0.18 x64 UEFI 2.4; PI 1.3 UND 3272000DF60X005 03/04/2019 16:18:33	Choose the system default language
System Language	[English]	
System Date System Time	[Mon 03/04/2019] [16:28:16]	→+: Select Screen ↑↓: Select Item
Access Level	Administrator	Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.17.1246. Co	oyright (C) 2019 American Me	egatrends, Inc.

The Main BIOS setup screen has two main frames. The left frame displays all the options that can be configured. Grayed-out options cannot be configured; options in blue can. The right frame displays the key legend.

Above the key legend is an area reserved for a text message. When an option is selected in the left frame, it is highlighted in white. Often a text message will accompany it.

System Time / System Date

Use this option to change the system time and date. Highlight System Time or System Date using the <Arrow> keys. Enter new values through the keyboard. Press the <Tab> key or the <Arrow> keys to move between fields. The date must be entered in MM/DD/YY format. The time must be entered in HH:MM:SS format.

3.2.2 Advanced BIOS Features Setup

Select the Advanced tab from the UNO-3272G setup screen to enter the Advanced BIOS Setup screen. You can select any of the items in the left frame of the screen, such as ACPI Settings and hit <enter> to go to the sub menu for that item. You can display an Advanced BIOS Setup option by highlighting it using the <Arrow> keys. All Advanced BIOS Setup options are described in this section. The Advanced BIOS Setup screen is shown below. The sub menus are described on the following pages.

Aptio Setup Utility – Copyright (C) 2019 American Main <mark>Advanced C</mark> hipset Security Boot Save & Exit	Megatrends, Inc.
 Trusted Computing ACPI Settings IT8768E Super IO Configuration Embedded Controller Configuration S5 RTC Wake Settings CPU Configuration IDE Configuration Miscellaneous Configuration LAN Controller Network Stack Configuration CSM Configuration USB Configuration 	Trusted Computing Settings
	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1246. Copyright (C) 2019 American Me	gatrends, Inc.

3.2.2.1 Trusted Computing



Security Device Support

This item allows users to enable or disable "Security Device Support".



3.2.2.2 ACPI Settings

This item allows users to enable or disable "ACPI Auto Configuration".

Enable Hibernation

This item allows users to enable or disable "Hibernation".

ACPI Sleep State

This item allows users to set ACPI mode S3 (Suspend to RAM) or to Disable "ACPI Sleep State".

Lock Legacy Resources This item allows users to enable or disable "Lock Legacy Resources"

3.2.2.3 IT8768E Super IO Configuration

UNO-3272G supports 2xRS-232/422/485 & 2-RS-232.

Aptio Setup Utility - Advanced	- Copyright (C) 2019 Americar	n Megatrends, Inc.
IT8768E Super IO Configuration		Set Parameters of Serial Port 1 (COMA)
Super IO Chip > Serial Port 1 Configuration > Serial Port 2 Configuration > Serial Port 3 Configuration > Serial Port 4 Configuration	IT8768E	
		<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1246. (Copyright (C) 2019American M	Megatrends, Inc.



Aptio Setup Utility – Advanced	Copyright (C) 2019 American	Megatrends, Inc.
Serial Port 2 Configuration		Enable or Disable Serial Port
Serial Port Device Settings	[Enabled] IO=2F8h; IRQ=3;	(601)
Change Settings COM2 Mode	[Auto] [RS-232 Mode]	
		<pre> ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1246. Co	opyright (C) 2019 American M	legatrends, Inc.

Serial Port 1 Configuration

- Serial Port

This item allows users to enable or disable for "Serial Port".

- Change Settings

This item allows users to Change Settings of Serial Ports. The default setting is "RS-232".

 $- \ \, \text{Device Mode}$

This item allows users to set the mode to RS-422/485. The default setting is "RS232".

Serial Port 2 Configuration

Serial Port

This item allows users to enable or disable for "Serial Port".

- Change Settings

This item allows users to change settings of serial ports. The default setting is "Auto".

Device Mode

This item allows users to set the mode to RS-422/485. The default setting is "RS232".

Aptio Setup Utility – Advanced	Copyright (C) 2019 Amer:	ican Megatrends, Inc.
Serial Port 3 Configuration		Enable or Disable Serial Port
Serial Port Device Settings	[Enabled] IO=2E8h; IRQ=11;	Courty
Change Settings	[Auto]	
		++: Select Screen 14: Select Item Enter: Select
		+/-: Change Opt. F1: General Help F2: Previous Values
		F3: Optimized Defaults F4: Save & Exit ESC: Exit

Aptio Setup Utility - Advanced	· Copyright (C) 2019 America	n Megatrends, Inc.
Serial Port 4 Configuration		Enable or Disable Serial Port
Serial Port Device Settings	[Enabled] IO=3E8h; IRQ=7;	
Change Settings	[Auto]	
		++: Select Screen 11: Select Item
		Enter: Select +/-: Change Opt. F1: General Help
		F2: Previous Values F3: Optimized Defaults
		ESC: Exit
Version 2.17.1246. C	Copyright (C) 2019 American	Megatrends, Inc.

Serial Port 3 Configuration

- Serial Port

This item allows users to enable or disable for "Serial Port".

- Change Settings

This item allows users to Change Settings of Serial Ports. The default setting is "Auto".

Serial Port 4 Configuration

- Serial Port

This item allows users to enable or disable for "Serial Port".

- Change Settings

This item allows users to change settings of serial ports. The default setting is "Auto".

3.2.2.4 Embedded Controller Configuration

Aptio Setup Utility Advanced	– Copyright (C) 2019 America	n Megatrends, Inc.
EC Firmware Version	I28FAV0100	Select Irq Number eBrain WatchDog
EC Hardware Monitor CPU temperature +VBAT +5VSB Vin Vcore	: +44°C : +2.884 V : +5.102 V : +23.782 V : +0.797 V	
iManager WatchDog IRQ EC Watch Dog Function	[Disable] [Disable]	
		<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1246.	Copyright (C) 2019 American	Megatrends, Inc.

iManager WatchDog IRQ

This item allows users to enable or disable for "iManager WatchDog IRQ"

3.2.2.5 S5 RTC Wake Settings

Aptio Set Advanced	up Utility – Copyright (C) 2019 Amer	rican Megatrends, Inc.
Hake system from S5	[Disabled]	Enable or disable System wake on alarm event. Select FixedTime, system will wake on the hr::min::sec specified. Select DynamicTime , System will wake on the current time + Increase minute(s) ++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version	2.17.1246. Copyright (C) 2019 Americ	an Megatrends, Inc.

Wake system from S5

This item allows users to enable or disable for "Wake system from S5"

3.2.2.6 CPU Configuration



Execute Disable Bit

This item allows users to enable or disable for "Execute Disable Bit".

Intel Virtualization Technology

This item allows users to enable or disable for "Intel Virtualization Technology".

3.2.2.7 IDE Configuration

Aptio Setup Uti Advanced	lity – Copyright (C) 2019 Am	merican Megatrends, Inc.
IDE Configuration		Enable / Disable Serial ATA
Serial—ATA (SATA)	[Enabled]	
SATA Speed Support SATA ODD Port SATA Mode Serial-ATA Port 0 SATA Port0 HotPlug	[Gen2] [No ODD] [AHCI Mode] [Enabled] [Disabled]	
Serial-ATA Port 1 SATA Port1 HotPlug SATA Port0 Not Present SATA Port1 Not Present	[Enabled] [Disabled]	<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Evit</pre>
Version 2.17.1	246. Copyright (C) 2019 Amer	rican Megatrends, Inc.

3.2.2.8 Miscellaneous Configuration

Aptio Setup Utility - Advanced	– Copyright (C) 2019 Americar) Megatrends, Inc.
Miscellaneous Configuration OS Selection	[Windows 8.X]	OS Selection
		<pre>++: Select Screen 1↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1246. (Copyright (C) 2019American ⊧	legatrends, Inc.

OS Selection:

This items allow user to set the OS mode: "Win 8.x" or "Win 7"or "WinCE 7". (If user installs Win 10 or Linux OS, set for "Win8.x")

3.2.2.9 LAN Controller



LAN Controller

This items allowed user to enable or disable for wake on LAN function

3.2.2.10 Network Stack Configuration



Network Stack

This item allows users to enable or disable for "Network Stack" (For using UEFI PXE function, please enable this item).

3.2.2.11 CSM Configuration

Aptio Setup Utility – Advanced	Copyright (C) 2019 American	Megatrends, Inc.
Compatibility Support Module Config	uration	Enable/Disable CSM Support.
CSM Support	[Enabled]	
CSM16 Module Version	07.76	
GateA20 Active Option ROM Messages	[Upon Request] [Force BIOS]	
Boot option filter	[UEFI only]	
Option ROM execution		
Network Storage Video Other PCI devices	(UEFI) (UEFI) (UEFI) (UEFI)	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1246. C	opyright (C) 2019 American Mu	egatrends, Inc.

CSM Support

This item allows users to enable or disable for "CSM Support".

GateA20 Active

This item allows users to set Upon Request or Always for "GateA20 Active".

Option ROM Messages

This item allows users to set Force BIOS or Keep Current for "Option ROM Messages".

Boot option filter

This item allows users to set UEFI and Legacy or Legacy only or UEFI only for "Boot option filter". (For using Legacy PXE function, please set to "UEFI" or" UEFI and Legacy" mode.)

Network

This item allows users to set Do not launch or UEFI or Legacy for "Network". (For using Legacy PXE function, please set to "UEFI" mode.)

Storage

This item allows users to set Do not launch or UEFI or Legacy for "Storage".

Video

This item allows users to set Do not launch or UEFI or Legacy for "Video".

Other PCI devices

This item allows users to set Do not launch or UEFI or Legacy for "Other PCI devices".

3.2.2.12 USB Configuration

Aptio Setup Utility – Advanced	Copyright (C) 2019 American	Megatrends, Inc.
USB Configuration		Enables Legacy USB support.
USB Module Version	8.11.02	support if no USB devices are connected. DISABLE option will
USB Devices: 1 Drive, 1 Keyboard, 1 Mouse,	3 Hubs	keep USB devices available only for EFI applications.
Legacy USB Support XHCI Hand-off EHCI Hand-off USB Mass Storage Driver Support	[Enabled] [Enabled] [Disabled] [Enabled]	
USB hardware delays and time-outs:		
USB transfer time-out	[20 sec]	++: Select Screen
Device reset time-out Device nower-up delau	[20 sec] [Auto]	I↓: Select Item Enter: Select
bevice power up derug	[hato]	+/-: Change Opt.
Mass Storage Devices:		F1: General Help
KingstonDataTraveler 3.0PMAP	[Auto]	F2: Previous Values
		F3: Uptimized Defaults F4: Save & Exit
		ESC: Exit
Version 2 17 1246 - 00	nnuright (C) 2019 American M	egatrends Inc
	application (C) 2013 miles Itali M	egatiends, Inc.

Legacy USB Support

This item allows users to enable or disable or set Auto for "Legacy USB Support".

XHCI Hand-off

This item allows users to enable or disable "XHCI Hand-off".

EHCI Hand-off

This item allows users to enable or disable "EHCI Hand-off".

USB Mass Storage Driver Support

This item allows users to enable or disable "USB Mass Storage Driver Support".

USB transfer Time-out This item allows users to set different time mode for "USB transfer Time-out".

Device reset Time-out

This item allows users to set different time modes for "Device reset Time-out".

Device power-up delay

This item allows users to set different time mode for "Device power-up delay".

Kingston DataTraveler 3.0MAP

This item allows users to set different time mode for "Kingston DataTraveler 3.0MAP".

3.2.3 Chipset

Aptio Setup Utility – Copyri Main Advanced <mark>Chipset</mark> Security Boot	ght (C) 2019 American Megatrends, Inc. Save & Exit
▶ North Bridge ▶ South Bridge	North Bridge Parameters
	++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.17.1246. Copyrigh	t (C) 2019 American Megatrends, Inc.

Aptio S Chip	etup Utility – Copyright (C) 2019 <mark>set</mark>	9 American Megatrends, Inc.
Memory Information		
Total Memory	4096 MB (DDR3L)	
Memory Slot0 Memory Slot2	4096 MB (DDR3L) Not Present	
		++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Versio	n 2.17.1246. Copyright (C) 2019 A	American Megatrends, Inc.

Aptio Se Chips	etup Utility – C	opyright ((C) 2019 American	Megatrends,	Inc.
 USB Configuration PCI Express Configurat 	ion			USB Configur	ration Settings
Global SMI Lock BIOS Read/Write Protec	tion	[Enabled] [Disabled]			
				++: Select S 14: Select J Enter: Select +/-: Change F1: General F2: Previous F3: Optimize F4: Save & E ESC: Exit	Ocreen Item Opt. Help & Values ed Defaults :xit
Versior	2.17.1246. Cop	yright (C)	2019 American Me	egatrends, Ir	ю.

3.2.3.1 USB Configuration

Aptio Setup Ut: Chipset	ility – Copyright (C) 2019 Ame	erican Megatrends, Inc.
USB Configuration USB 2.0(EHCI) Support USB Per Port Control USB Port 0 USB Port 2 USB Port 3	[Disabled] [Enabled] [Enabled] [Enabled] [Enabled]	Control each of the USB ports (0~3). Enable:Enable USB per port; Disable: Use USB port X settings
		++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.17.1	1246. Copyright (C) 2019 Ameri	ican Megatrends, Inc.

USB Per port control

This item allows users to enable or disable for "USB Per port control".

Chapter 3 AMI BIOS Setup

3.2.3.2 PCI Express Configuration

Aptio Setup Chipset	Jtility – Copyright (C) 2019 American	Megatrends, Inc.
PCI Express Configuration PCI Express Port O Hot Plug Speed	[Enabled] [Enabled] [Auto]		Enable or Disable the PCI Express Port O in the Chipset.
PCI Express Port 1 Hot Plug Speed	[Enabled] [Enabled] [Auto]		
PCI Express Port 2 Hot Plug Speed	[Enabled] [Enabled] [Auto]		
PCI Express Port 3 Hot Plug Speed	[Enabled] [Enabled] [Auto]		<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.1	7.1246. Copyright (C)	2019 American Me	egatrends, Inc.

3.2.4 Security



Set Admin Password

This item allows users to set "Administrator Password" if desired.

3.2.5 Boot



Setup Prompt Timeout

Number of Seconds to wait for setup activation kay. 65535 (0xFFF) means indefinite waiting.

Bootup NumLock State

This item allows users to set "Bootup NumLock State" either On or Off.

Quiet Boot

This item allows users to disable or enable "Quiet Boot".

Boot Option Priorities

These items will display based on how many devices are attached

Aptio Setup U Main Advanced Chipset S	tility – Copyright (C) 2019 America ecurity <mark>Boot</mark> Save & Exit	n Megatrends, Inc.
Boot Configuration Setup Prompt Timeout Bootup Num∟ock State	1 [0n]	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite
Quiet Boot Fast Boot	[Enabled] [Disabled]	waiting.
Boot Option Priorities Boot Option #1	[KingstonDataTravele]	
USB Device BBS Priorities		
		++: Select Screen †↓: Select Item Ester: Select
		Frier: Select +/−: Change Opt. F1: General Help
		F2: Previous Values F3: Optimized Defaults F4: Save & Exit
		ESC: Exit
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3.2.6 Save & Exit

Aptio Setup Utility – Copyright (C) 2019 American Main Advanced Chipset Security Boot <mark>Save & Exit</mark>	Megatrends, Inc.
Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset	Attempts to Launch EFI Shell application (Shell.efi) from one of the available filesystem devices
Save Options Save Changes Discard Changes	
Restore Defaults Save as User Defaults Restore User Defaults	
Boot Overnide KingstonDataTraveler 3.0PMAP	↔: Select Screen 1↓: Select Item Enter: Select
Launch EFI Shell from filesystem device	+/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.17.1246. Copyright (C) 2019 American M	egatrends. Inc.
version 2.17.1246. copyright (c) 2019 Himerican Mi	egatrends, inc.

Save Changes and Exit

This item allows users to Save Changes and Exit.

Discard Changes and Exit

This item allows users to Discard Changes and Exit.

Save Changes and Reset
This item allows users to Save Changes and Reset.
Discard Changes and Reset
This item allows users to Discard Changes and Reset.
Save Changes
This item allows users to Save Changes.
Discard Changes
This item allows users to Discard Changes.
Restore Defaults
This item allows users to restore factory defaults.
Save as User Defaults
This item allows users to Save as User Defaults.
Restore User Defaults
This item allows users to Restore User Defaults.
Launch EFI Shell from file system device
Attempts to Loungh EEI Shall application (Shall of) form a

Attempts to Launch EFI Shell application (Shell.efi) form one of the available file system devices.



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