Hisense

User Manual (HK560)



QingDao Hisense Intelligent Commercial System Co.,Ltd.

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Part 1 System Introduction

Safety Notices Before Installation or Use

- ☆ It is required grounded well and the supply voltage shall be stable, and you must confirm that the voltage of the outlet provides shall be in line with the voltage marked on the label of the unit.
- \Rightarrow Be sure not to sprinkle any liquid or fall any object into the unit.
- \Rightarrow Be sure not to keep heavy, strenuous movement, shake & heavy strike away from the POS.
- $\stackrel{\scriptstyle \wedge}{\sim}$ Do not switch on or off the host frequently, because it is easy to result in damage on the machine.
- Be sure not to unplug or plug in any live part or external device when they are in energized state, and the connecting cables of the POS between parts shall be connected securely.
- Be sure neither to lengthen cable nor to replace parts at your will, if you have any demand, please contact with the reseller.
- The unit shall be used under dry, ventilated & clean environment away from sunlight. Avoid to making the air vent of the host machine blocked or covered
- ☆ If any liquid sprinkles or any sundry falls into the unit, please shut it down immediately & switch off power supply, take batteries down, dry the liquid or remove the sundry. If you take the batteries down, you shall reset CMOS.
- In case of safety fault, such as peculiar smell, abnormal sound, leakage and other faults, you must switch off the power supply at once and then contact with reseller.
- \Rightarrow When inserting USB flash or disk, you shall kill virus to prevent the host machine from virus.
- The RJ11 port at the back of the host is connected with the cash drawer, as it is not a communication port, users shall not use the port for dial-up networking.
- The product is a Level A one, it may cause radio interference in living environment. In such case, users may need to take practical & feasible measures against the interference.
- \Rightarrow When the POS is not in use, you shall switch off power supply.

	🕁 Warning:	
3	1. Environmental absolute grade:	
Å,	A) Working temperature: 0-40 C B) Working humidity: 10%-85% RH	
2	C) Storage temperature: -10-50 C D) Storage humidity: 10%-90% RH	
ð	2. The main plug on the power supply is used as a disconnecting device. The socket shall be installed near the equipment and shall be accessible easily.	
Å,	3. Power input: AC 100-240V 50-60Hz	
Å	If there is any damage to the power supply or equipment, please contact the local service personnel for help.	
3	5. Static electricity can damage the integrated circuit in the host computer.	
&	6. If the replacement battery is incorrect, it may cause explosion or serious damage. Batteries of the same type or similar type recommended by the manufacturer must be replaced.	

7. Use only with additional AC/DC power supply.

The manufacturer has the right to modify the contents of the instructions without prior declaration. Product Standard Number: Q/0202 RSR527

1. System Introduction

The appearance of the whole machine has the following modes:



Single-screen Device, length * width * height: 405 * 210 * 330; main screen flip range: 0-45 degrees



Dual-screen Device, length * width * height: 405 * 250 * 370; main screen flip range: 0-45 and second screen flip angle 0-30.



Screen High position + printer, length * width * height: 405 * 250 * 420



Self-service Kiosk, length * width * height: 230 * 250 * 450

According to the running state of the system, there is a power indicator status light.

Status	Information	Fig
Red	System errors (e.g. lack of hard disk, memory)	0
White	Power on (S1)	0
Blue	standby mode (S3)	•

2. Basic product configuration

Category	Parts	HK560	
	CPU	Intel® Celeron® processor (Baytrail-D) J1900Quad Core, clock speed1.99GHz up to 2.42GHz, TDP 10W	
System	OS	Windows 7 / Windows 10 / Ubuntu linux	
	Memory	DDRIIIL 4G (Up to 8G)	
	Storage	128G SSD, up to 256GB	
Display	LCD	15.6" LCD	
and	Resolution	1920*1080	
Touch	Touch screen	Capacitive touch screen	
Screen	2 nd display	15.6" screen optional	
		10.1" screen optional	
1/0	Serial ports	* Standard COM, COM1~3:external port, COM4: onboard port COM1 has no Power selection COM2 and COM3 can set 5V/12V power supply through BIOS (COM2 \COM3 are set to 0V by default) COM4 can be set to 5V/12V for VFD through jumper (COM4 is set to 5V by default).	
	USB	4*USB2.0,1*USB3.0	
	Ethernet	1 * RJ-45 (1000M)	
	Audio	1 Line-out	
	Cash drawer port	1 * RJ-11 24V for cash drawer	
	DC 24V output	Power USB	

Power	Power Adapter1	Adapter (DC 24V, 2.5A) standard for device without printer or CubeX
	Power Adapter2	Adapter (DC 24V, 5A) for device with printer or CubeX
	Printer optional	80mm printer
Extornal		58mm printer
External	Cash drawer	Steel Cash Drawer (Supporting Dual cash drawer)
	card reader optional	Magnetic stripe card reader/RFID contactless card
		reader
	Scanner	Support
	VFD	2x20 characters VFD (RS232, option)

3. I/O Panel



4. Main Board Interface Description





	Jumpers / Headers and Connectors		
1	SYS_FAN1	System Fan Connector	
2	CLR_CMOS1	CMOS Clear Jumper	
3	J_VGA1	VGA Pin Header	
4	J_COM4, J_COM5, J_COM6	COM4-6 Pin Headers	
5	F_USB1	Front USB2.0 Pin Header1	
6	J_PWRCOM4	COM4 VCC Select Jumper	
7	F_USB2	Front USB2.0 Pin Header2	
8	F_USB3	Front USB2.0 Pin Header3	
9	F_USB4	Front USB2.0 Pin Header4	
10	F_PANEL1	Front Panel FPC Connector	
11	J_RST1	System Reset Button Pin Header	
12	J_MIC1	MIC Pin Header	
13	J_SPK1	Amplifier Pin Header	
14	R_USB4	USB2.0 TYPE-A Connector	
15	S_ATA1	SATA2.0 Port (7+15P)	
16	EDP1	EDP1 Signal Connector	
17	EDP2	EDP2 Signal Connector	
18	MINI_PCIE1	Mini PCI-E1 Slot (WIFI+4G)	
19	DIMM1	SO-DIMM DDR3L Slot	
20	NGFF1	M.2 (NGFF) Key-B Slot (SSD, 2280)	
21	DC_IN1	DC24V Power Input Connector (4Pin Jack)	
22	RJ11_1	Cash Drawer RJ11 Connector	

22	R_USB1(R_USB5)	POWER USB 24V Key-2 Connector (USB2.0
23		TYPE-A Connector)
24	R_USB2	USB2.0 Dual TYPE-A Connector
25	R_USB3	USB3.0+USB2.0 TYPE-A Connector
26	COM1	COM1 RJ50 Connector
27	COM2	COM1 RJ50 Connector
28	COM3	COM1 RJ50 Connector
29	RJ45_1	LAN RJ45 Connector
30	PJ1	Line-out 3.5mm Jack

J_PWRCOM4 (COM4 VCC Select Jumper 3*2 Pin 2.54mm)

Graphic	Setting	Function
4 0	1-2	COM4_VCC: + 12V
	3-4	COM4_VCC: + 5V
	5-6(Default)	COM4_VCC: RI#

CLR_CMOS1 (CMOS Clear Jumper 3*1 Pin 2.54mm)

Graphic	Setting	Function
1 🗖	1-2 (Default)	Normal
8	2-3	Clear CMOS

Part II System Assembly and Disassembly

1. Main screen, Second screen (15.6"/10.1") and VFD.

Note: As the second screen (15.6"/10.1") and the fixed structure of the guest display and the base are fixed with three gaskets and anti-loosening screw, the following is illustrated with the 15.6-inch screen as an example.

1.1 Remove the rear housing of the base and unscrew the two screw shown here.



Figure 1

1.2 After removing the screw, pull the rear shell of the base forcefully according to the graphic method, remove the rear shell of the base, and then see the transfer plate fixed inside the base.







Figure 3 15.6 inches screen

Figure 4 10.1 inches screen

Figure 5 VFD

1.3 Remove the two connectors shown in the figure and protect them with the American tape according to the figure (to prevent the connector from being pulled out in the process of dismantling and threading);



1.4 Rotate the main screen and the secondary screen to the vertical angle, remove the three fixing screws of the main screen and the second screen (15.6 inch screen/10.1 inch screen/VFD) respectively, and carefully pass the screen cable through the cable hole. Separate the main and auxiliary screen from the base respectively.



2. Hard Disk Replacement

Description: The hard disk can be replaced directly on the host. In order to display pictures more clearly, the base and other components are hidden in the following pictures.

1.5 Disassemble the extended interface cover and pull it out at the notch according to the PICTURE. Remove the expanded interface cover.



Figure 6

1.6 Remove the hard disk. Unscrew the hard disk fixing screw and pull out the hard disk in the arrow direction shown.



Figure 7

3. Installation of Card Reader

Description: The hard disk can be replaced directly on the host computer. In order to display pictures more clearly, the base and other components are hidden in the following pictures.

1.7 Remove the card reader cover



Figure 8

1.8 Insert the cable reserved in the host into the cable socket of the card reader module



Figure 9 1.9 Install the card brusher in the graphic direction and fix it by locking two M3*8 screws.



Figure 10

4. Fingerprint reader installation

1.10 Remove Fingerprint reader cover



Figure 11

1.11 Insert the reserved cables in the host into the terminal base of the Fingerprint reader



Figure 12

1.12 The Fingerprint reader is installed in the graphical direction and fixed by locking an M3*8 screw.



Figure 13

Part III System Installation

1. Inspection of installation environment

It is important to choose a safe and reliable place to install the terminal.

Choose a table or table large and strong enough to support the weight of the system and peripherals.

Choose a flat, hard surface. Carpet areas can generate static electricity to replace memory or damage system components.

Make sure that the system is installed in a well ventilated area and that the space is free.

Choose appropriate environmental conditions, such as cool and dry places. Avoid damp and dusty places. At the same time, avoid direct sunlight, rapid temperature change, or place the system near the heat source.

Choose the appropriate voltage. Connect all devices to an isolated socket to prevent static electricity and short circuit.

Make sure printers and other peripherals have enough power outlets.

Do not install near electromagnetic and electrical equipment, such as telephones and motors, which may cause system damage.

The socket should be installed near the equipment and should be accessible.

2. System software installation

1. Mainboard Driver installation and Usage Driver

Mainboard

	📙 BayTrail_WIN 7_8_10_64_D	Display
	📙 BayTrail_WIN 7_64_Audio	
win7-32	📙 BayTrail_WIN 7_64_Chipse	t
📕 win7-64 📃 🖊	📙 BayTrail_WIN 7_64_LAN	
win8&10-64	BayTrail_WIN 7_64_TXE	
📕 win 🗖 win10-32	📜 BayTrail_WIN 7_64_USB 3.	0
BayTrail_WIN 7_8_10_64_0	Display	
📕 BayTrail_WIN 8_10_64_Au	dio	
📜 BayTrail_WIN 8_10_64_Chi	pset	
📕 BayTrail_WIN 8_10_64_LAI	N	
BayTrail_WIN 8_10_64_TXI	E	
 Touch screen setting find MouserRegister software 	are in Touch Panel	
 Cashdrawer Fingerprint Reader mainboard MSR anno 		
Touch Panel		
VFD		
🐌 wifi		HTT3.
	🎳 MouseRegister	🔇 MouseRegister

Double-click to run, set the value to 50, click set, set up.

Ø MouseRegister	×
DoubleClickHeight :	50
DoubleClickWidth :	50
Set	Cancel

3. MSR setting



open and select USB



Pop up the lower interface and click on the tag location



In this interface, you can select the settings that need to be modified, click Update, and then update the modified settings to the card switcher.

Magstripe Card Reader Setting



 \times

4. RFID test Open demo

Open denio		
Cashdrawer Fingerprint Reader		
퉬 mainboard		
MSR 🔒	UsbMifareDemo-2161	A HYUSB_PINPAD.dll
\rm RFID		船 UsbMifareDemo
🔰 Touch Panel 创建日		
VFD 大小: 文化:		
🔰 wifi		

The operation steps are as follows:

UsbMifareD	Demo				2
Version	1 Power Up	Mifare Pro			
Request	Power Down	Get ATS			
Select	2	Exchange APDU:	0084000004	Seno	ł
Halt		De-Select	(Fill in hexadecimal string	, without any space)	
Aifare I					
Login	Sector: 0x0F	Type: 0xAA 💌 Key	FF FF FF FF FF FF FF		
		- · · · · · · · · · · · · · · · · · · ·	(Fill in 6 hexadecimal byte	s, with a space as a sepa	arator
Change Key	Sector: 0x00	Type: 0xAA 🗾 Key	ri		
Read	Block: 0x3C	-1	(Fill in 6 hexadecimal byte	s, with a space as a sepa	arator
Write		- - - - - - - - - - - - - - - - - - -	5 06 07 08 09 0A 0B 0C 0	0 0E 0F	
write		Data: (Fill in 16 hexadecima	al bytes, with a space as	a separatpr)	
Read Value	Block: 0x3C	-			
Write Value	Block: 0x3C	- Data:			
		(Fill in 4 hexadecimal byte	s, little endian, with a sp	ace as a separator)	
Increment	Blocks Dy3C -	• Data [
Increment		(Fill in 4 hexadecimal byte	s, little endian, with a sp	ace as a separator)	
Decrement	Disale Dy3C				
Decrement		 Data: (Fill in 4 hexadecimal byte 	s, little endian, with a sp	ace as a separator)	
Beep	Duration (ms):			LED © On 1	
			-	C off	
creat beep	Count: 15 On	Duration (ms): 1500 Of	Duration (ms): 1500		
Address:	1 Data:	Re	ad 1 R	ead Write	1
	(At m	ost 16-character String) Ler	igth: I		_
				OK	1

5. Fingerprint reader driver installation and testing

Find the device that needs to install driver in the Device Manager. Double-click to Open. The update steps are as follows:

Find the driver storage location, update completed

← ∎ Uno	Rowre For Folder	^		^
, ∎ opt			←	Update Driver Software - NEXT Biometrics NB-2020-U
Brow	Select the folder that contains drivers for your hardware.			The best driver software for your device is already installed
	NB-2020-U Generic WIN USB Driver			The best driver software for your device is an easy instance
Search	fo v 10052015	1		Windows has determined the driver software for your device is up to date.
	Win7X86	browse		NEXT Biometrics NB-2020-U
	Win8.1X64			(W)
	PCMark_Vantage_v101_0910a			
	Felder: Win10X64			
$\rightarrow l$	hi land	mputer levice, and all driver		
s	of OK Cancel			
	3			
		4		
		Next Cancel		Close

Find the test demo, double-click to open

🍌 Cashdrawer		<u> </u>
퉬 Fingerprint Reader	NR Demo Application	🚳 msvcr120.dll
in mainboard	IND_Demo_Application	NB Demo Application.Engine.dll
MCP	NB-2020-U Generic WIN USB Driver	NB_Demo_Application
		NBiometricClient.dll
🎳 RFID		NBiometrics dll
퉬 Touch Panel		
VFD		NCluster.dll
		NClusterJni.dll
Jan Will		NCore.dll

The fingerprint data can be read out by putting the finger on the fingerprint reader after 1-2-3.

NEXT Biometrics Demo Application v1.0.0	- D X	r	
😑 Scan Page	Sensors: SNR 464500330026700547274645 🗸 🔹 🖯 📑 -		
🕞 1 Template			
		MEXT Biometrics Demo Application v1.0.0	- o x
C1			Sensors: NE02001 (PW 4310) Sine 404003000570047274645 🗸 🔹 🔿 🕞 -
		6,	Template
Status: C Scanning		and the ansatz	
2 Continuous		Status: , Scanning Scan Mode:	
¢ 3	stop	*	stop

6. 10 inch second screen settings

Click on the lower right corner to open the graphics card control software

After you run it, click Display icon as below

Monitor Hisense is selected in blank 1, resolution can be adjusted in blank 2, rotation direction of secondary screen can be adjusted in blank 3, and setting can be saved in blank 4.

Intel® HD G	raphics Contro	l Panel			_ 🗆 ×
🗲 Display 🗸				Display Settings	(intel)
Select Display	Display Settings	Color			
Monitor Hisense	▼ Basic	Advanced		Preview	0
	Resolution		()		
Select Profile	2 Refresh Rate 60p Hz	~	0		12
	Rotation 0 V90	180 270	0		
	Scaling ✓ Maintain Display Scaling Center Image		0		
					4
		+		×	\bigcirc
		Save Profile			

3. BIOS

1. Main

This topic introduces the basic information of the basic input/output system (BIOS) on the main page.

Aptio Setup Utility – Main Advanced Chipset Security	Copyright (C) 2019 American Boot Save & Exit	Megatrends, Inc.
BIOS Information		Set the Date. Use Tab to
BIOS Version Build Date and Time	S395A 0.10 x64 07/06/2019 09:06:04	surten between bate erements.
Product Serial Number	Default string	
System Date System Time	[Mon 07/29/2019] [16:05:16]	
Access Level	Administrator	
		<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F8: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>

Version 2.18.1263. Copyright (C) 2019 American Megatrends, Inc.

Parameter	Description
BIOS	BIOS Version: S395A 0.10 x64
Information	Build Date and Time:- MM/DD/YEAR hh:mm:ss
	Product Serial Number: The Product Serial Number of the Mainboard
System Date	Current system date.
	A system date is in the format of MM/DD/YEAR. Press Enter or Tab to switch among
	the month, day, and year. Change a date value using the following methods:
	Press + to increase a value by 1.
	Press - to decrease a value by 1.
	Press a numeric key to change a value.
System Time	Current system time.
	A system time is in the format of HH:MM:SS on a 24-hour clock. Press Enter or Tab
	to switch among the hour, minute, and second. Change a time value using the
	following methods:
	Press + to increase a value by 1.
	Press - to decrease a value by 1.
	Press a numeric key to change a value.
Access Level	Show the current user access level

2. Advanced

This topic introduces the system parameters and related functions on the "Advanced" page. Users can view advanced configuration items of basic input/output system (BIOS), such as ACPI, USB and serial port.

Aptio Setup Utility – Copyright (C) 2019 American Main Advanced Chipset Security Boot Save & Exit	Megatrends, Inc.
 ACPI Settings Super IO Configuration Hardware Monitor Power Button Control Power Control SS RTC Wake Settings CPU Configuration LCD Control IDE Configuration OS Configuration CSM Configuration USB Configuration 	System ACPI Parameters.
	<pre>++: Select Screen f↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F8: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>

Version 2.18.1263. Copyright (C) 2019 American Megatrends, Inc.

Parameter	Description	
ACPI Settings	System ACPI Parameters	
Super IO Configuration	System Super IO Chip Parameters	
Hardware Monitor	Monitor hardware status	
Power Button Control	Power Button Control Settings	
Power Control	COM2-3 Pin9 Settings	
S5 RTC Wake Settings	S5 RTC Wake Settings	
CPU Configuration	CPU Configuration Parameters	
LCD Control	LCD Control Parameters	
IDE Configuration	SATA Configuration Parameters	
OS Configuration	Select Operating System On this Computer	
CSM Configuration	CSM Configuration Settings	
USB Configuration	USB Configuration Parameters	

Super IO Configuration

The switch of COM1-COM4 and its IO and IRQ are controlled here.

Adv	Aptio Setup U anced	tility – Copyright	(C) 2019 American	Megatrends, Inc.
COM1				Enable or Disable Serial Port
Serial Por Device Set	t tings	(Enabled) IO=3F8h;	IRQ=4;	(Gun)
Change Set	tings	[Auto]		
				++: Select Screen
				t∔: Select Item Enter: Select
				+/-: Change Opt. F1: General Help
				F9: Optimized Defaults F10: Save & Exit
				ESC: Exit
	Version 2.18	.1263. Copyright (C) 2019 American Me	egatrends, Inc.

Hardware Monitor

Aptio Setu Advanced	p Utility – Copyright (C) 201	9 American Megatrends, Inc.	
Advanced Pc Health Status CPU Temp SYS_FAN1 VCC_CPU VCC_DDR +12 +5 +3.3	: +46 C : +33 C : N/A : +1.044 V : +1.356 V : +12.168 V : +4.980 V : +3.286 V		
		<pre>++: Select Screen f1: Select Item Enter: Select +/-: Change Opt. F1: General Help F8: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>	
Version 2 Parameter	.18.1263. Copyright (C) 2019 (American Megatrends, Inc.	
CPU Temp		The temperature of CPU	
SYS Temp		The temperature of Environment	
SYS_FAN1		The speed of SYS_FAN1	
VCC_CPU		The Voltage of CPU	
VCC_DDR		The Voltage of DDR	
+12		The Voltage of +12	
+5		The Voltage of +5	
+3.3		The voltage of +3.3	

Power Button Control

Aptio Setu Advanced	p Utility – Copyright (C) 2019 Americar	Megatrends, Inc.
PowerOn after PowerFall Soft-Off by PWR-BTTN	[Power Off] [Instant-Off]	Select AC power state when power is re-applied after a power failure.
		++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F8: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
Version 2	.18.1263. Copyright (C) 2019 American ⊧	Megatrends, Inc.
Parameter PowerOn after PowerFail	Description Select AC Power state to when failure Power Off: When the current is down. Power On: When the current is boot state. Last State: The last state, that i	power is re-applied after a po restored, the computer is shut restored, the computer is in th is, when the power is off.
Soft-Off by PWR- BTTN	Choose Power Button Function	I

Power Control

A Advanced	Aptio Setup Utility - 1	Copyright	(C) 2019 American	Megatrends,	Inc.
COM2 Pin9 Sel	lection	[Signa1] [Signa1]		++: Select S 11: Select Select Enter: Select +/-: Change F1: General F8: Previous F9: Optimize F10: Save & ESC: Exit	Screen Item St Opt. Help s Values ed Defaults Exit
Deremete	Version 2.18.1263. C	opyright (C)) 2019 American Me	egatrends, In	16.

Parameter	Description	
COM2	Pin9 Selection	Set the definition of the Pin9 of COM2(Signal,5V,12V)
COM3	Pin9 Selection	Set the definition of the Pin9 of COM3(Signal,5V,12V)

OS Configuration

Select Windows 7 & Android & Windows 8.x and 10, default Windows 10 for US

Aptio Setup Ut Advanced	ility – Copyright	(C) 2019 American	Megatrends, Inc.
Miscellaneous Configuration OS Selection	[Windows '	7]	OS Selection ++: Select Screen +: Select Item Enter: Select +/-: Change Opt. F1: General Help F8: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit
Version 2.18	1263, Conveight (C)) 2019 American Me	gatrends. Inc.

3. Boot

This topic introduces the configuration of bootstrap functions.

Aptio Setup Utility – Main Advanced Chipset Security	Copyright (C) 2019 American Boot Save & Exit	Megatrends, Inc.
Boot Configuration Setup Prompt Timeout Bootup NumLock State FullScreen Logo Fast Boot	3 [On] [Enabled] [Disabled]	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
Boot Option Priorities Boot Option #1 Boot Option #2 Boot Option #3 Hard Drive BBS Priorities	[UEFI: KingstonDataT] [KingstonDataTravele] [UEFI: Built-in EFI]	++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F8: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit

Version 2.18.1263. Copyright (C) 2019 American Megatrends, Inc.

Parameter	Description
Boot Configuration	
Setup Prompt Timeout	Number of seconds to wait for setup activation key.
	65535(0xFFFF) means indefinite waiting.
Bootup NumLock State	Select the keyboard NumLock state
FullScreen Logo	Enable or disable Full Screen Logo
Fast Boot	Enable or disable Fast Boot
Boot Option Priorities	
Boot Option #1	Sets the system boot order
Boot Option #2	Sets the system boot order
Boot Option #3	Sets the system boot order
Hard Drive BBS Priorities	Set the order of the legacy devices in this group

4. Save & Exit

This topic describes how to save BIOS parameter modifications on save and exit pages and exit BIOS.

Aptio Setup Uti Main Advanced Chipset Sec	lity – Copyright (C) 2019 American urity Boot Save & Exit	Megatrends, Inc.	
Save Changes and Reset Discard Changes and Reset		Reset the system after saving the changes.	
Restore Defaults Save as User Defaults Restore User Defaults			
Boot Override UEFI: KingstonDataTraveler 2. KingstonDataTraveler 2.0 UEFI: Built-in EFI Shell	0, Partition 1		
UEFI: Built-in EFI Shell Launch EFI Shell from filesystem device		<pre>++: Select Screen t↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F8: Previous Values F9: Optimized Defaults F10: Save & Exit ESC: Exit</pre>	
Version 2.18.1	263. Copyright (C) 2019 American M	egatrends, Inc.	
Parameter	Description		
Save Changes and Reset	Reset system setup after saving the changes.		

Resel	
Discard Changes and	Reset system setup without saving any changes.
Reset	
Restore Defaults	Restore/Load Default Values for all the setup options.
Save as User Defaults	Save the changes done so far as User Defaults
Restore User Defaults	Restore the User Defaults to all the setup options
Boot Override	
Launch EFI Shell from	Attempts to Launch EFI Shell application (Shell.efi) from one of
filesystem device	the available filesystem devices

Part IV Instructions for Usage

1. Switching Instruction

Start-up: When the adapter is connected, press the Power button on the right back side of the bottom of the machine, see the button indicator light on, and hear a "beep" prompt sound, then start-up can be achieved.

Shutdown: Select the shutdown item under the Windows system, and then shut down automatically.

2. Instructions for using magnetic stripe cards

• When swiping the card, the machine should be placed on a hard horizontal plane.

• Please scratch the magnetic strip of the magnetic strip card inward from the swipe slot.

• The card swiping process should be smooth and uniform.

3. Instructions for using RFID contactless cards

The RFID contactless card reader module is located behind the right side of the Host. When the induction card is not received, please place the card above the induction area.

Part V Accessories Annexes

No.	Item	Qty	Note
1	POS	1	
2	Adaptor	1	
3	Power cable	1	

Appendix A

BIOS Set Up

1. Copy all files in the file directory of the compressed package to the U-disk root directory.

2. Connect only U-disk, not other storage devices, press F11 to boot, pull out the startup menu, select "UEFI: Built-in EFI Shell" to enter the shell interface, and return.

3. Enter up to refresh BIOS on return.

4. When the refresh is completed, shut down and power off for 10 seconds.

5. Turn on the power and press F2 to enter BIOS Setup interface, then press F9 and F10 to optimize and save. Note: Do not cut off the power supply, shut down or restart during BIOS refresh, otherwise the power will not be able to start.

Appendix B

Super IO Information (BIOS default) COM1: 3F8h/4 COM2: 2F8h/3 COM3: 3E8h/6 COM4: 2E8h/6

Cash Drawer

/* This Demo program for POS box CD_SENSE GP23 CD_OPEN GP36 */ #include "stdio.h" #include "conio.h" #include "graphics.h" #include "graphics.h" #include "biring.h" #include "io.h" #define BIT0 0x01 #define BIT1 0x02 #define BIT2 0x04

```
#define BIT3 0x08
#define BIT4 0x10
#define BIT5 0x20
#define BIT6 0x40
#define BIT7 0x80
#define IO_Base 0xA00
#define CDS_PORT IO_Base+1
#define CDO_PORT IO_Base+2
void Init_DIO_Default()
{
}
/*-----
@brief : Set CD_OPEN power level
@Input : Level-- 0:Low 1: High
-----*/
void Set_CD_OPEN(int Level)
{ int t;
if(Level)
{ outportb(CDO_PORT,inportb(CDO_PORT)|BIT6);
printf(" CD_OPEN is High \n");
}
else
{ outportb(CDO_PORT,inportb(CDO_PORT) &~BIT6);
printf("CD_OPEN is Low\n");
}
}
/*-----
@brief : Get CD_SENSE low active
@Return : 1:Low active with no jitter
-----*/
int Get_CD_SENSE_Status()
{
if(inportb(CDS_PORT)&BIT3)
{ delay(100);
if(inportb(CDS_PORT)&BIT3)
{
printf("CD_SENSE is Low level stability.\n");
return 1;
}
}
else
printf("CD_SENSE is High level\n");
return 0;
}
main()
{
printf("System ready\n ");
```

```
/*Set_CD_OPEN High */
Set_CD_OPEN(1);
/*Set_CD_OPEN Low */
Set_CD_OPEN(0);
while(1)
{
Get_CD_SENSE_Status();
}
}
```