

P2300 User Manual Version 1.0



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SAFETY INSTRUCTIONS

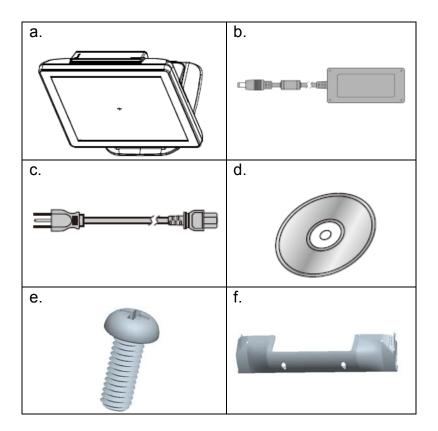
- 1. Read these instructions carefully. Keep these instructions for future reference.
- 2. Please disconnect this equipment from AC outlet before cleaning. Don't use liquid or sprayed detergent for cleaning. Use moisture sheet or cloth for cleaning.
- 3. Please keep this equipment from humidity.
- 4. Lay this equipment on a reliable surface when install. A drop or fall could cause injury.
- 5. Make sure power cord such a way that people can not step on it. Do not place anything over the power cord.
- 6. All cautions and warnings on the equipment should be noted.
- 7. If the equipment is not used for long time, disconnect the equipment from main to avoid being damaged by transient over voltage.
- 8. Never pour any liquid into opening, this could cause fire or electrical shock.
- 9. If one of the following situations arises, get the equipment checked by a service personnel:
 - a. The power cord or plug is damaged.
 - b. Liquid has penetrated into the equipment.
 - c. The equipment has been exposed to moisture.
 - d. The equipment does not work well or you can not get it work according to user manual.
 - e. The equipment has dropped and damaged.
- 10. Do not leave this equipment in an environment unconditioned, storage temperature below -20°C or above 60°C, it may damage the equipment.
- 11. Unplug the power cord when doing any service or adding optional kits.

Lithium Battery Caution:

Danger of explosion can happen if the battery is incorrectly replaced, Replace only the original or equivalent type recommended by the manufacture. Dispose used batteries according to the manufacture's instructions.

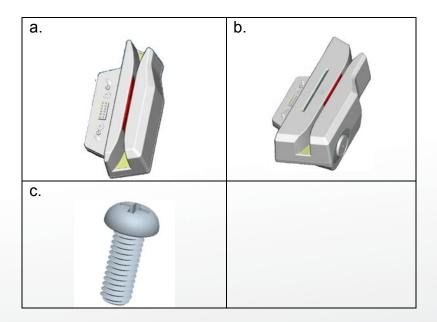
Do not remove the cover, and ensure no user serviceable components are inside. Take the unit to the service center for service and repair.

1-1. Standard Accessories



- a. System (with stand)
- b. Power Adapter
- c. Power Cord
- d. Driver Bank
- e. Screw x2
- f. Cable Cover

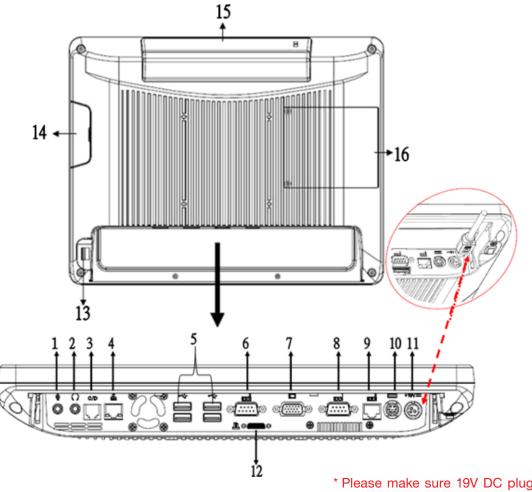
1-2. Optional Accessories



- a. Single MSR
- b. 3 IN 1 MSR
- c. Screw x2

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2-1. Rear View Standard



* Please make sure 19V DC plug in the right direction before plugging in DC jack.

Item

1. Mic

- 2. Line-Out
- 3. RJ11 (Cash Drawer)
- 4. RJ45(LAN)
- 5. USB 2.0 X4
- 6. COM1
- 7. VGA

8. COM2

- 9. RJ45(COM 3 external)
- 10. PS2(K/B)
- 11. 19V DC Input
- 12. Parallel port (Option)
- 13. Power Button
- 14. MSR/Smart Card/ i-Button/ Fingerprint/ RFID (Option)

15. VFD(Option)

16. HDD/CF CARD



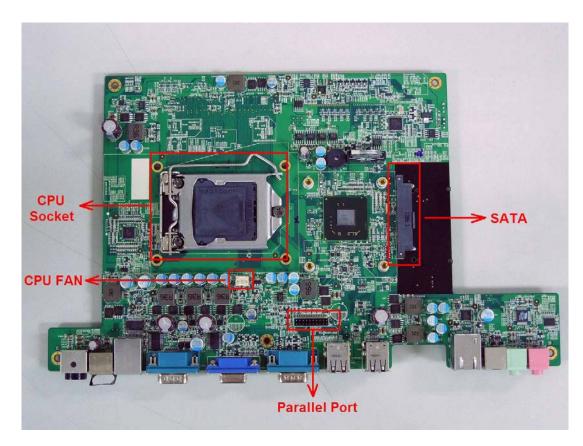
2-2. Specification

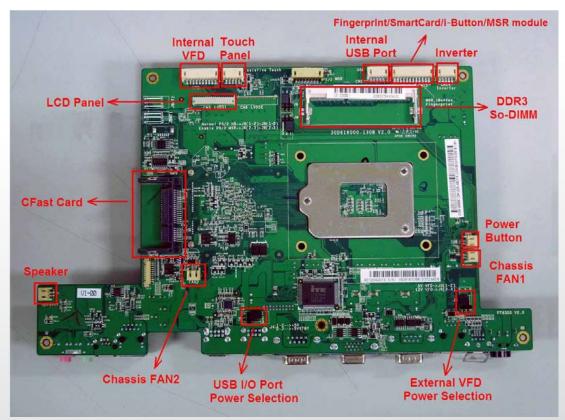
Processor	Intel® Celeron® G540 processor (2M Cache, 2.50GHz)	
Chipsets: North Bridge/South Bridge	H61	
Memory	One SO-DIMM socket supports DDR3 1333MHZ up to 4GB	
Audio	Line-out/Mic-in	
Network	RJ45 10/100/1000 Base-T	
USB	4*USB 2.0	
Storage	CFast type I / 2.5" SATA HDD / SSD	
BIOS	AMI UEFI BIOS	
Power	DC 19V 180W Adaptor	
Thermal Solution	Heat sink + Fan X3	
Dimension	368 (W) x 264.2 (H) x 285 (D) mm	
Operating Temperature	0°C ~ 35°C	
Storage Temperature	-20°C ~ 60°C	
Storage Humidity	20% ~ 80%, non-condensing	

Display		
LCD Panel Size	15-inch TFT Active Matrix Display	
Resolution	1024*768 Pixels	
Brightness	250 cd/m2	
Touch Panel	5-wire Resistive Type / optional	
Tilt Angle	30°~90° <dc 36w(12v)="" adapter="" external="" power=""></dc>	

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2-3. Internal Layout





2-4. Touch Panel Life Test Condition

2-4.1 Pointing life test

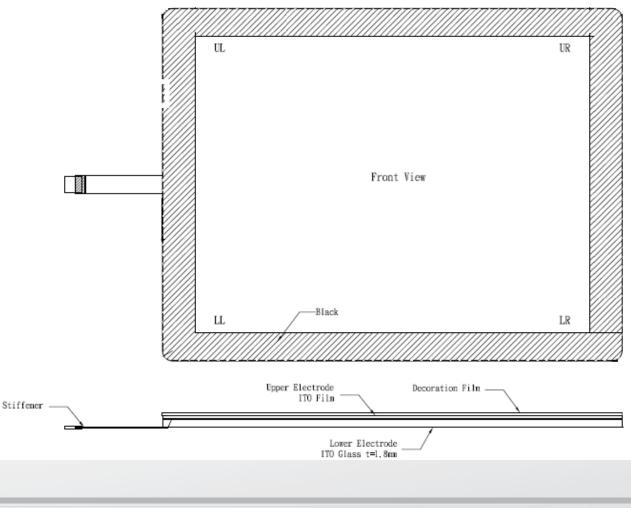
Hit it thirty five million times with a silicon rubber of R 0.8, Hs 60 and measure it. The measurement must satisfy the under-metioned items. Hitting force shall be 250g and hitting speed 3 times per second.

- Resistance state should the same 5.1
- Linearity should the same 5.2
- Insulation resistance should the same 5.3

2-4.2 Hand Writing test

Write one hundred thousand times of 40mm straight line to and fro (counts as twice) with and engineering plastic stylus in AA area. The measurement items must satisfy the under-mentioned items. Writing force shall be 250g and writing speed 3,000 times per hour.

- Resistance state should the same 5.1
- Linearity should the same 5.2
- Insulation resistance should the same 5.3



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PIN DEFINITION

1. Parallel J7

Pin NO.	Pin Name	Description
1	STB#	Printer Strobe
2	PDO	Parallel Port DATA0
3	PD1	Parallel Port DATA1
4	PD2	Parallel Port DATA2
5	PD3	Parallel Port DATA3
6	PD4	Parallel Port DATA4
7	PD5	Parallel Port DATA5
8	PD6	Parallel Port DATA6
9	PD7	Parallel Port DATA7
10	ACK#	Printer Acknowledge
11	BUSY	Printer Busy
12	PE	Printer Paper End
13	SLCT	Printer Select
14	AFD#	Printer Auto Line Feed
15	ERR#	Printer Error
16	INIT#	Printer Initialize
17	SLIN#	Printer Select Input
18	GND	Ground
19	GND	Ground
20	GND	Ground

3. VFD Connector CN9

Pin NO.	Pin Name	Description
1	5V	+5V
2	NDSR	DSR
3	GND	Ground
4	NRTS	DTR
5	NRTS	RTS
6	NCTS	CTS
7	NTXD	TXD
8	NRXD	RXD
9	GND	Ground
10	12C	+12V

4. Mic

Pin NO.	Pin Name	Description
1	GND	Ground
2	GND	Ground
3	Mic R	Mic right
4	Mic L	Mic left
5	Detect	Delect

2. Line-out J3

Pin NO.	Pin Name	Description
1	GND	Ground
2	GND	Ground
3	Line OUT R	Line out
4	Line OUT L	Line out
5	Detect	Delect



5. Speaker SP1

Pin NO.	Pin Name	Description
1	+	Speaker +
2	-	Speaker -

7. Inverter CN14

Pin NO.	Pin Name	Description
1	VCC	+12V
2	GND	Ground
3	NC	NC
4	BKL_CTL	Back Light Brightness
5	BKL_EN	Back Light Enable

6. LVDS CN 2

Pin NO.	Pin Name	Description
1	LCDVCC	+3.3v
2	LCDVCC	+3.3v
3	GND	Ground
4	NC	NC
5	DATA 0-	LVDS Output DATA0-
6	DATA 0+	LVDS Output DATA0+
7	GND	Ground
8	DATA 1-	LVDS Output DATA1-
9	DATA 1+	LVDS Output DATA1+
10	GND	Ground
11	DATA 2-	LVDS Output DATA2-
12	DATA 2+	LVDS Output DATA2+
13	GND	Ground
14	CLK-	LVDS CLK-
15	CLK+	LVDS CLK+
16	GND	Ground
17	NC	NC
18	NC	NC
19	GND	Ground
20	NC	NC

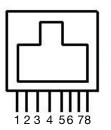
8. Extra USB CN13

Pin NO.	Pin Name	Description
1	VCC	+5V
2	- DATA	D-
3	+ DATA	D+
4	GND	Ground
5	GND	Ground

REAR I/O INTERFACE

1. COM1' COM2' COM3 port

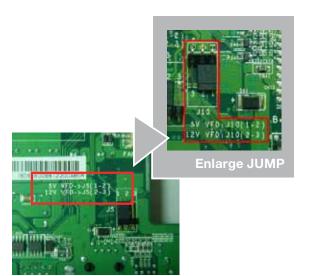
Pin	Signal	Function
1	CD	Carrier Detect (IN)
2	RD	Receive Data (IN)
3	TD	Transmit Data(OUT)
4	DTR	Data Terminal Ready(OUT)
5	GND	Ground
6	DSR	Data Set Ready (In)
7	RTS	Request To Send (OUT)
8	CTS	Clear To Send (IN)
9	Ring/5V/12V	Setting by BIOS



Pin 1: +5V / +12V Pin 2: DSR# Pin 3: GND Pin 4: DTR# Pin 5: RTS# Pin 6: CTS# Pin 7: TxD Pin 8: RxD

COM3 port. Warning!! COM3 (RJ45 Connector) for external VFD use only. Never use on network device. If you are using on the network device will cause the device damaged.

COM 3 port will be inactive if POS has internal VFD. (Alternative of COM 3 or internal VFD)



2. VGA port

Pin	1/0	Function
1	Out	Red Video
2	Out	Green Video
3	Out	Blue Video
4	In	Monitor ID 2
5	-	TTL Ground (Monitor Self Test)
6	-	Red Analogue Ground
7	-	Green Analogue Ground
8	-	Blue Analogue Ground
9	-	Key (Plugged Hole)
10	-	Sync Ground
11	In	Monitor ID 0
12	In	Monitor ID 1
13	Out	Horizonal Sync
14	Out	Vertical Sync
15	In	Monitor ID 3

3. USB port

Pin	Signal Name	Wire Colour	Comment
1	Vcc	Red	Cable Power
2	- Data	White	Data Transfer
3	+ Data	Green	Data Transfer
4	Ground	Black	Cable Ground
Shell	Shield	-	Drain Wire

4. PS/2 K/B port

Pin	Signal Name	
1	Data from Device	
2	Not Connected	
3	Ground	
4	+5V DC	
5	Clock	
6	Not Connected	

6. RJ11 port (for Cash drawer)

Pin	Signal Name	Direction
1	Frame GND	-
2	Drawer Kick-out drive signal 1	Output
3	N/C	-
4	+12V	-
5	N/C	-
6	Signal GND	-

Example DOS COMMAND for **Cash Drawer**:

- 1. Create the file: TEST.TXT
- 2. Input below contents in TEST.TXT CONTEXT-"000.0" MODE COM5:300
- 3. Run COMMAND under DOS mode COPY TEST.TXT COM5

7. DC Jack

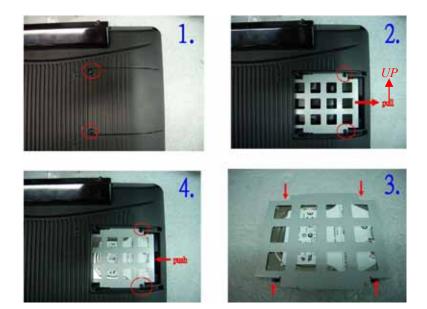
Pin	Signal Name
1	DC IN 19V
2	Ground

5. LAN port

Pin	Wire Colour	Description
1	White/Orange	Transmit
2	Orange	Transmit
3	White/Green	Receive
4	Blue	Not Used
5	White/Blue	Not Used
6	Green	Receive
7	White/Brown	Not Used
8	Brown	Not Used

SYSTEM ASSEMBLY & DISASSEMBLY

3-1. HDD



- 1. Unfasten the HDD cover screw*2
- 2. Pull out the HDD bracket
- 3. Fasten the screw*4
- 4. Place the HDD bracket back to the module

3-2. CF-Card

1. Please notice the notched CF Card. This side up.





2. Before Installing CF Card.



3. After Installing CF Card.



3-3. MSR



- 1. Open the MSR cover
- 2. Single MSR or 4in1MSR
- 3. Screw*2 M3x10L
- 4. Fasten the screw

3-4. Cable Cover



Assemble the cable cover from bottom and make sure the two latches are on the right position. Then fasten 2 screws (M3*5L).



3-5. 8"/15" 2nd Display



(1) Remove the plastic pole cover from the stand.



(2) Install the pole into the socket in clockwise direction.



(3) Fasten the four screws (M4*8L) to joint the VESA bracket and the rear cover.



- (4) Connect the COM port, DC cable as shown in figure (1). (Please refer to page 61 to set the COM port pin9 with 12V DC output.)
- (5) Connect the VGA cable as shown in figure (2).
- (6) Connect the audio cable as shown in figure(3).
- (7) Assemble the cable cover from bottom and make sure the two latches are on the right position, and fasten the two screws (M3*5L).
- (8) Route the cables through the opening of stand front cover and cable clip at the bottom and route the cables into the tube of pole.

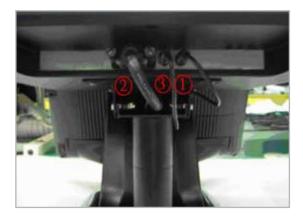


(9) Reeve the cables out of the tube.





(10) Mount the VESA bracket on the pole and route cables out of the tube of VESA bracket. Fasten the thumb screw to fix the VESA bracket.



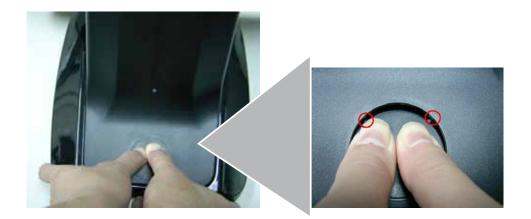
- (11) Connect the DC power cable as shown in figure (1).
- (12) Connect the VGA cable as shown in figure (2).
- (13) Connect the Audio cable as shown in figure (3).



(14) Put the cable cover on the hinge of VESA bracket.

3-6. 8" 2nd Display

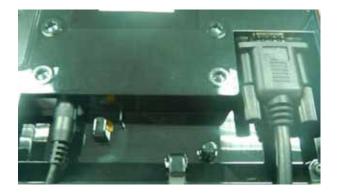
1. Remove the plastic pole cover from the stand.



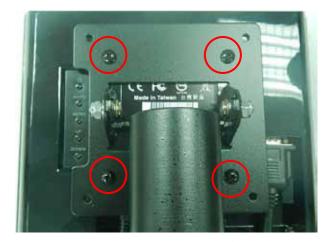
2. Install the pole into the socket in clockwise direction.



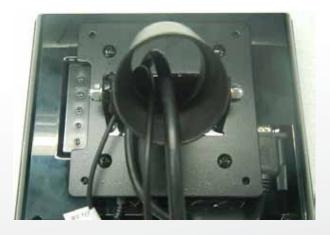
3.Connect VGA cable and DC power cable



4. Fasten the four screws (M4*8L) to joint the VESA bracket and the rear cover.



5. Reeve the cables out of the tube.



6.Mount the VESA bracket on the pole and route cables out of the tube of VESA bracket. Fasten the thumb screw to fix the VESA bracket.



7.Reeve the cables out from the bottom of pole.



8. Route the cables through the opening of stand front cover and cable clip at the bottom and route the cables into the tube of pole.





- 9. Connect the DC power cable as shown in figure (1).
- 10. Connect the VGA cable as shown in figure (2).



To setup COM port PIN9 with 12V DC output from BIOS setup, please refer to page 89, Advanced Chipset Features / COM port PIN9 setting.

11. Put the cable cover on the hinge of VESA bracket.



3-7. 1D / 2D / iButton with RFID Module



 (1) Cable installation.
 For iButton with RFID module; For 2D barcode scanner with RFID module: Connect the cable as shown.



(3) Fix the screws as shown.



- (2) For 1D barcode scanner with RFID module: Connect the cable as shown.
- * Before COM port cable connection, please setup COM port PIN9 with 5V DC output from BIOS setup.

Please refer to page 83, **Advanced Chipset Features** / COM port PIN9 setting.

4-1. Resistive Type Touch Panel

- 1. Install (Operating System: Microsoft Windows POSReady2009)
- 1.1 Click "Next"

TouchSet Touch Panel USB & RS232 Driver Setup for Windows XP - InstallShield Wiza 🔀				
	Welcome to the InstallShield Wizard for TouchSet Touch Panel USB & RS232 Driver Setup for Windows XP			
	The InstallShield® Wizard will install TouchSet Touch Panel USB & RS232 Driver Setup for Windows XP on your computer. To continue, click Next.			
	< Back Next > Cancel			

1.2 Installation

TouchSet Touch Panel USB & RS232 Driver Setup for Windows XP - InstallShield Wiza 🔀
Setup Status
TouchSet Touch Panel USB & RS232 Driver Setup for Windows XP is configuring your new software installation.
Installing
C:\Windows\System32\TouchSet\help.chm
Install5 heid -
Cancel

1.3 Click Yes



1.4 Click Continue Anyway



1.6 Click Finish to reboot your system to complete the installation of POS

TouchSet Touch Panel USB &	R5232 Driver Setup for Windows XP - InstallShield Wizard
	Complete Installation Please reboot system for complete Installation
	 Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
	Back Finish Cancel

2. Touch Sensor

2.1 Click TouchSet Utility



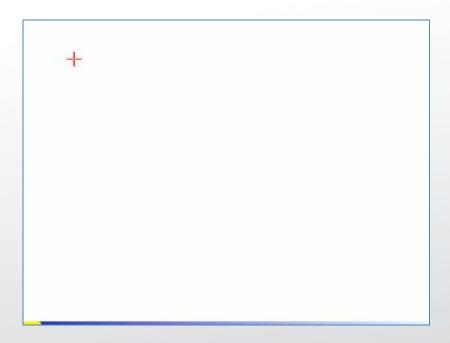
2-1 Check the sheet of Configuration you can find the $\ensuremath{\mathsf{I/F}}$ of touch panel

Touch Sensitivity Configuration	Function T Monitors	ouch A Calibr	bout
		1	100004
Communication Interfac	te Set-up		
Communication Interf	ace:		4
USB Port		Scan	
Operation Mode			
Stream Mode	C Poi	int Mode	
ocalization	C Pol	int Mode	
ocalization Language:	C Poi	int Mode	
ocalization	C Poi	int Mode	
ocalization Language:	C Poi	int Mode	
ocalization Language:	C Poi	int Mode	

2.2 Click Calibration folder and check Calibrate box to start Touch Calibration.

Touch Sensitivity	Function Touc	
Configuration	Monitors	Calibration
Controller Features		
Use EEPROM to s	tore Calibration Pa	arameters
- Marchael matrices		
Calibration Set-up		
Acc	uracy Required	
🕶 4-Point		
11 12 112 123 123		
Touch Panel Draw Tes		
Paint Drawing		Calibrate
Drawing		Calibrate

2.3 Follow the instruction to touch four cross points.



4-2. MagStripe Card Reader Configuration Utility

The MagStripe Card Reader Configuration Utility is used to set up the output format of HID MSR .

Installation

Below steps guide you how to install the Utility program.

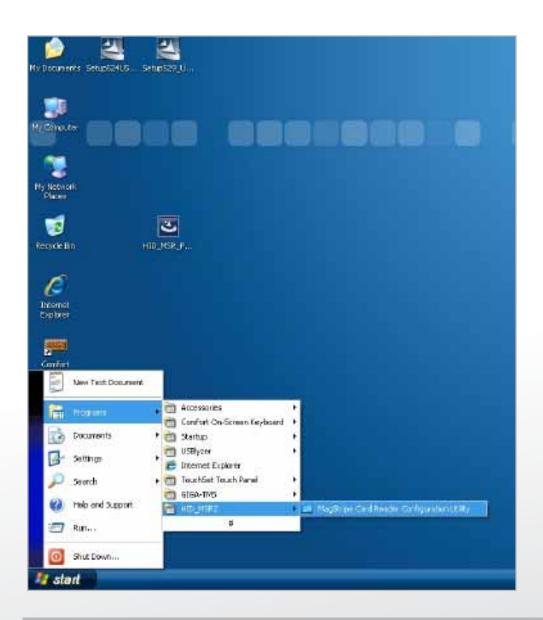
- 1 Insert the setup CD
- 2 Run the HID_MSR_PSW00003_V2_0_0.exe setup file that is located in the Software folder of CD. 3 Follow the wizard to complete the installation.

Launching Program

Below steps guide you how to load the Utility program.

1 From Start/Programs, click HID_MSR2 folder

2 Click MagStripe Card Reader Configuration Utility to launch the program.



- 1 The utility program will detect the connected reader. If detected, all the input text boxes will be enabled.
- 2 If the reader has not been connected to PC yet, please connect the reader and then click Refresh to get connected.

Configuration

Below is the main window of Utility program.

MagStripe Card Reader Configura	rtion Utility V2.0R0			_ = 🔀
General ISO Track	s AAMVA Tracks	JIS2	iButton	
Package:	Suffix	<u> </u>	guage English O Others Program Fleet HID MSR2	_
Delimiter:	Failed:		Belect.	
- Decode Mode Track 1: Enable Track 2: Enable Track 3: Enable	Output Order: TK1-T	K2-TK3 T		
Message: Device Found				
Firmware: MSR ROM-T1269 V1.0R1				
Connect Restore	Open Save	Update		Exit

For the settings, there are:

- 1 Language: The language defines the code positions of the keyboard. Each language should use its own settings. Wrong language selected will cause the wrong character displayed.
- 2 Prefix/Suffix: Defines the data string which you would like to append in front or end of the MSR data string.
- 3 Error Message: Indicates which track number cause the error.
- 4 Delimiter: Indicates the swipe result.
- 5 ISO: Define start and end sentinel character.
- 6 Decode Mode: Determines the way of outputting the three tracks data.

Shown below is the data structure of the output string for MSR. PP PR1 SS1 TK1 ES1 SU1 PR2 SS2 TK2 ES2 SU2 PR3 SS3 TK3 ES3 SU3 SU DM



- 1 PP: Prefix for package.
- 2 PR1: Prefix for track 1.
- 3 SS1: Start sentinel for track 1.
- 4 TK1: Data for track 1, if error happens, using Error Message instead.
- 5 ES1: End sentinel for track 1.
- 6 SU1: Suffix for track 1.
- 7 PR2: Prefix for track 2.
- 8 SS2: Start sentinel for track 2.
- 9 TK2: Data for track 2, if error happens, using Error Message instead.
- 10 ES2: End sentinel for track 2.

- 1 **SU2**: Suffix for track 2.
- 2 PR3: Prefix for track 3.
- 3 SS3: Start sentinel for track 3.
- 4 TK3: Data for track 3, if error happens, using Error Message instead..
- 5 ES3: End sentinel for track 3.
- 6 SU3: Suffix for track 3.
- 7 SU: Suffix for package.
- 8 DM: Delimiter for the swipe result.

Prefix/Suffix

In default, the prefix and suffix settings are all keep blank. There are 4 kinds of prefix and suffix to be defined, which are:

- 1 Package: For the prefix string, it is appended in the front of the whole MSR data. For the suffix, it is appended in the end of the whole MSR data. In most case, the suffix for package is always to be the "Enter" or "Tab" character. The max data length of the prefix and suffix for the package can be up to 127.
- 2 TK1: For the prefix string, it is appended in the front of the start sentinel of track 2. For the suffix, it is appended in the end of the end sentinel of track 2. The max data length of the prefix and suffix for the TK1 can be up to 127.
- 3 TK2: For the prefix string, it is appended in the front of the start sentinel of track 2. For the suffix, it is appended in the end of the end sentinel of track 2. The max data length of the prefix and suffix for the TK1 can be up to 127.
- 4 TK3: For the prefix string, it is appended in the front of the start sentinel of track 3. For the suffix, it is appended in the end of the end sentinel of track 3. The max data length of the prefix and suffix for the TK1 can be up to 127.

ISO

This group defines the start and end sentinel for each track. The sentinel is always used to extract the track data from the whole MSR data string. The data length for each sentinel is fixed to one character. Because there is ISO standard that defining the start and end sentinel for the three tracks. For the compatible reason, please do not modify the default value if possible.

Decode Mode

For this group, it contains two kinds of settings, which are:

- 1 Track Data Filtering: Determine which track to be, not to be output or needed to be output.
- 2 Switch Output Order: Change the output order of track 1 ~ 3.

Track Data Filtering

Shown below is the filter setting for track 1. This provides a fool-proofing method in case of receiving unwanted or uncompleted track data.

TK1	Enable	-
TK2	Disable	į

These three filter settings are:

- 1 Enable: If selected, the data of specified track will be packaged in the MSR data string. If the specified track data is not decoded, it will leave blank in the MSR data string.
- 2 Required: If selected, which means the output MSR data string must contain the specified track data. If the specified track data is not decoded, even MSR data string contains other track data, it will still not to be output.
- 3 Disable: If selected, the data of specified track will not be packaged in the MSR data string. No matter it is decoded or not.

Switch Output Order

Show below is the selection of the three track data output order (sequence). The default order is Track 1–Track 2–Track 3.

Output Order	TK1-TK2-TK3	-
	TK1-TK2-TK3	
Open	TK1-TK3-TK2	
	TK2-TK1-TK3	
	TK2-TK3-TK1	
	TK3TK1-TK2	
	TK3TK2-TK1	

There 6 orders allow to be selected. Please select one to fit your application needs.

Update Settings

Once complete the settings, click Update to update the settings to connected HID MSR reader.

Save Settings To save the settings to a file, click Save; specify the file name and location to be saved. Open Settings To load pre-saved settings, click Open, specify the settings file, and then click OK to load into program. Restore MSR Reader Settings To load restore settings of connected MSR reader, click Restore ES2: End sentinel for track.

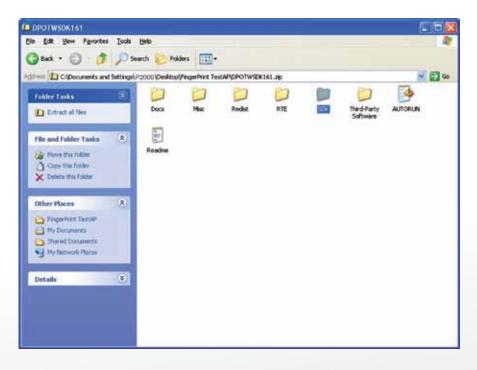


4-3. Fingerprint Reader

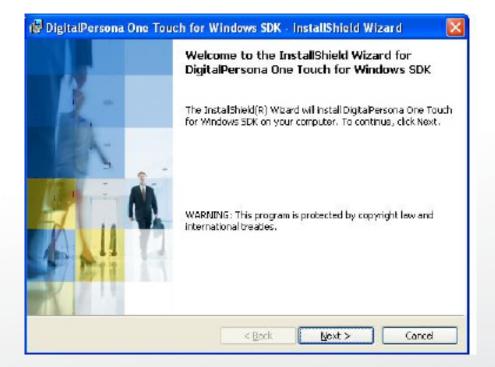
🖳 Computer Management - - 2 B Elle Action Yew Window Help _ # × * - • • • • • Batteries
 Computer Scomputer Management (Local) 🖹 🛃 System Tools Event Viewer Cycle Volley
 Shared Folders
 Cocal Users and Groups
 Performance Logs and Alert Device Manager + Clisk drives + 🕘 Human Interface Devices + 🔁 IDE ATA/ATAPI controllers Storage 🔹 🦢 Keyboards Mice and other pointing devices
 Monitors Postadors
 Network adapters
 Other devices
 U.are.U8 4500 Fingerprint Reader
 Ports (COM & LPT)
 Processors + B Ramdisk + 0 Sound, video and game controllers System devices
 Universal Serial Bus controllers ¢. 2

Step 1 Check Fingerprint reader be detected by "Device manager"

Step 2 Unzip and run Setup.exe from the following folder.



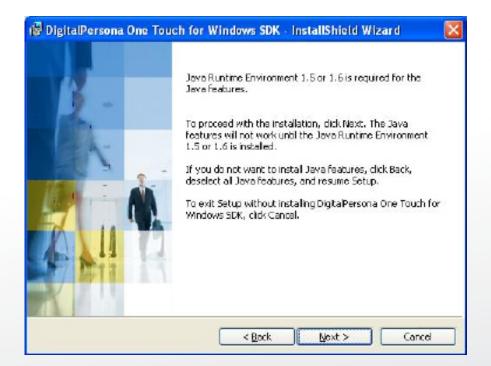
SDK	🗐 🗖 🔀
Ele Edit Yew Favorites Icols Help	
🔇 Badk 🔹 🔘 - 🏂 🔎 Search 🍋 Folders 🔝 -	
Address 🛅 90K	🛩 🄁 GO
Folder Tasks	
Install Setup	
Contraction of the second s	
File and Folder Tasks	
More this file	
Copy this He	
Z Delete this file	
Other Places	
DPOTWSDKL6L	
My Documents Shared Documents	
My Network Places	
And a second sec	
Details	



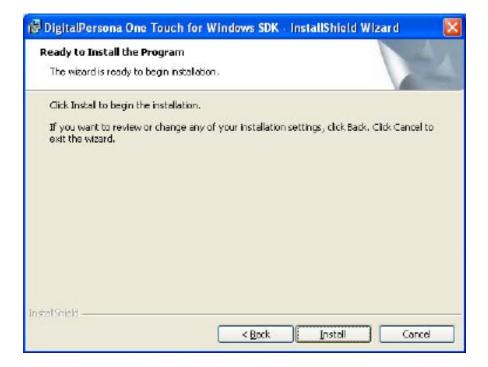
🕼 DigitalPersona One Touch for Windows SDK - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	4
END USER LICENSE AGREEMENT FOR DIGITALPERSONA® SOFTWARE DEVELOPMENT KIT (SDK) PRODUCTS	
IMPORTANT - READ CAREFULLY : This DIGITALPERSONA END USER LICENSE AGREEMENT (the "EULA") is a legal agreement between you either as an individual or as an authorized representative of a business entity (hereafter referred to as "You" and/or "Your") and DigitalPersona, Inc. ("DigitalPersona"). DigitalPersona is willing to license to You the DigitalPersona software product accompanying this EULA, which may	
 I group the terms in the license agreement; I do not accept the terms in the license agreement Instal Shield 	
< Back Next > Cancel	

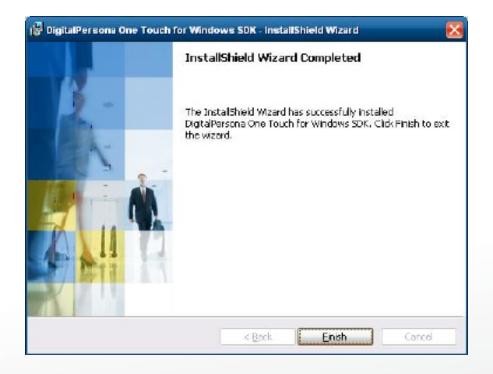
🔂 Digital	Persona One Touch for Windows SDK - InstallShield Wizard 🛛 🛛 🔀
Stanford	ion Folder xt to instal to this folder, or dick Change to install to a different folder.
D	Instal DigitalPersona One Touch for Windows SDK to : C:\Program Files\DigitalPersona\
Instal Shield -	< Book Vext > Cancel

🕼 DigitalPersona One Touch for Windows SDK	🛛 installShield Wizard 🛛 🛛 🔯
Custom Setup Select the program features you want installed.	
Cick on an icon in the list below to change how a feature is COM/ActiveX .NET Java	s installed. Feature Description This feature includes files for C/C++ development. This feature requires 7476KB on your hard drive.
Install to: C:\Program Files\DigitalPersona\ Instal Shield	Next > Cancel





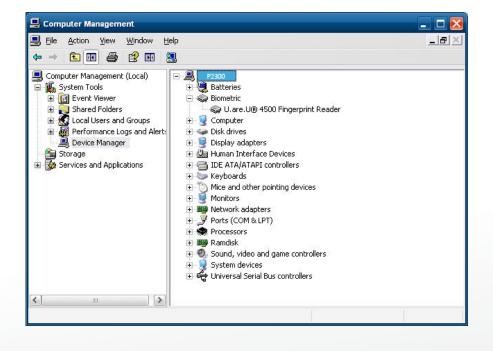




Step 3 Restart system

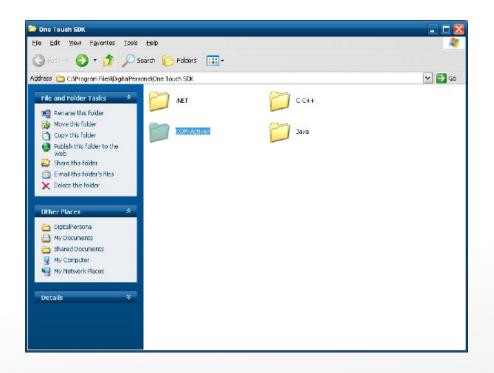
🛃 Digitall	Persona One Touch for Windows SDK Installer Inf 🗙
¢	You must restart your system for the configuration changes made to DigitalPersona One Touch for Windows SDK to take effect. Click Yes to restart now or No IF you plan to restart later.
	Yos No

Step 4 Check Fingerprint reader in device without any extraordinary.

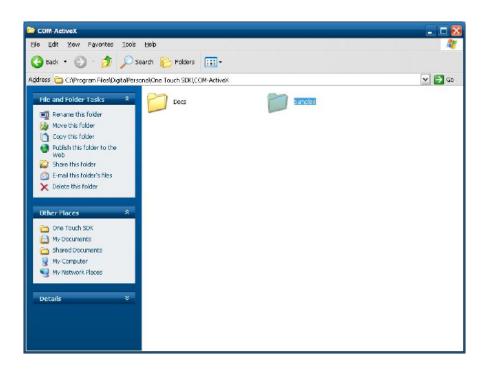


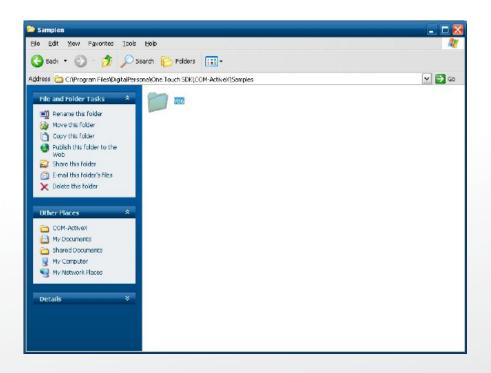
Step 5 Launch Fingerprint reader from start menu



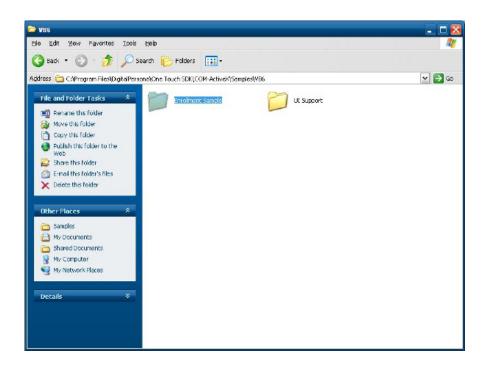


www.colormetrics.com.tw

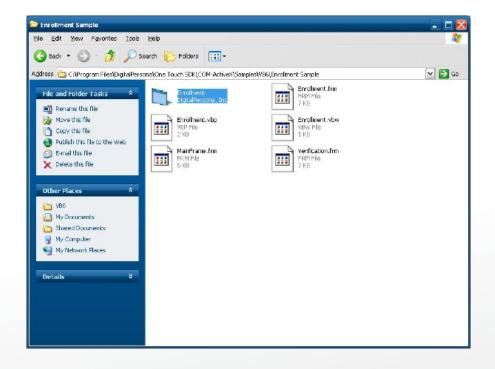




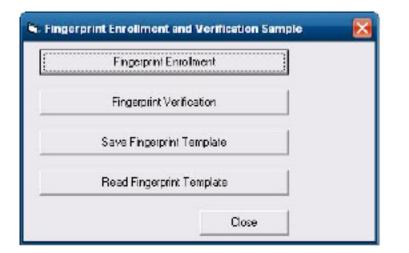




Step 6 Enroll the fingerprint by the "enrollment"



Step 7 Select "Fingerprint Enrollment"



 Fingerprint Enrollment 	Prompt:	<u>ک</u>
	Touch the lingerprint reader.	
	Status:	
	The Ingerplint leader was connected	
Fingerprint samples needed:	4	Close

43

Step 8 Put your finger on fingerprint reader and follow the direction to enroller your fingerprint, it need scan your fingerprint 4 times



Step 9 after enroller finish it will popup a dialog box

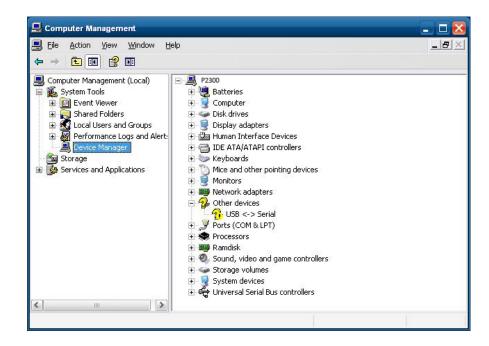
Ho Doom ees		Nin Post	dows Embedded
Malinate DOOO	4: Finger grint Encolment.	×	
Parent Persystellen FO-7000 FO-7000 Tradition URPy	WHH HE CONSISTENTS	Prinnpt Prinnpt Prinntpt	
Troot	Figeprit sincles needed		
🦉 start 👋 🕫 💷 🗐 🕷 👘	With Las - Gallet 🖉 an et	ven Sande 🛛 🕼 Finason i Enrol. 🛛 🕤 Franzont Enrol.	🖌 🛈 🚉 🖉 🛄 💽 🌒 салин

4-4. RFID

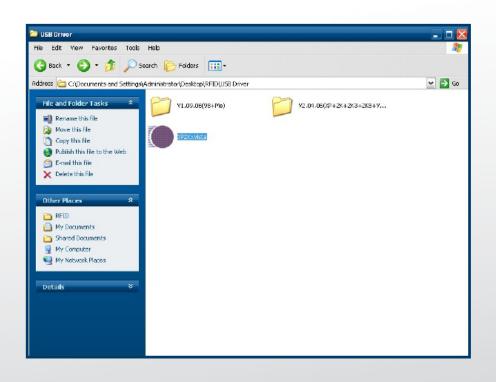
1. Install (Operating System: Microsoft Windows POSReady 2009)

1.2.2 1.1 Check the Device Manager to verify the status of RFID reader.

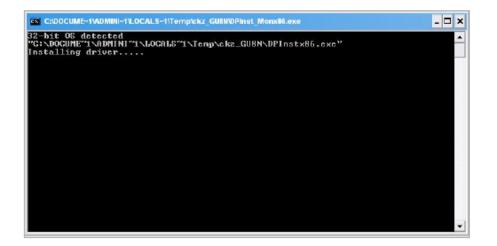
Computer Management -> Device Manager -> Other devices (The device will show a question mark if the installation is not done properly.)



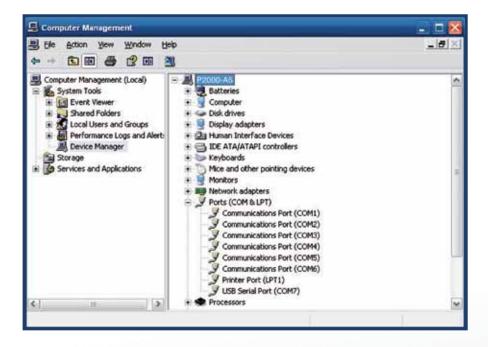
1.2 Install RFID driver file name: XP2KxVista.exe 2-1 Path:\USB Driver\ XP2KxVista.exe



1.2.1 After clicking Next, A pop up console window appears as below.



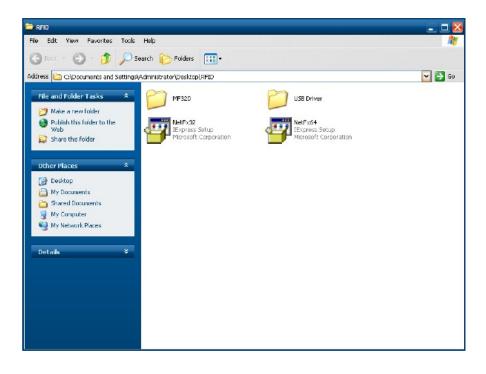
1.2.2 Check the Device Manager to verify the status of RFID reader. Computer Management -> Device Manager -> Ports (COM & LPT)

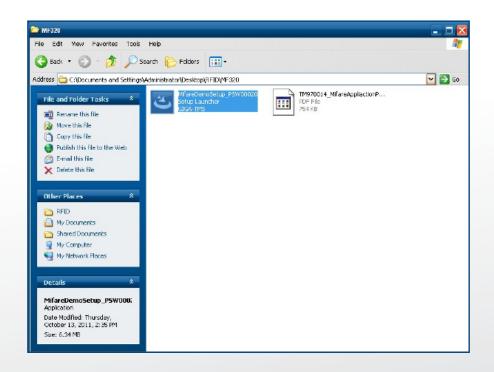


1.3 install RFID utility

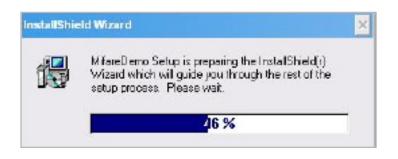
MifareDemoSetup_PSW00020.exe

3-1 Path:\MF320\MifareDemoSetup_PSW00020.exe





1.3.1 InstallaShield Wizard will be activated.



1.3.2 Click "Next"



1.3.3 Click "Next"

MTareDemo - InstaliShi	eid Wizard 🛛 🛛 🔀
	Setup eillingtal MitersDenoin the following directory. To instal to this directory, dick Next. To instal to a different directory, click Browse and astect another directory.
	You can choose not to install MilareDeno by sticking Cancel to exit Setup.
	Destination Directory CNProgram Files/GIGA-TMS1MilaseDama Bromm
(holdStull)	c Back Next 2 Cancel

1.3.4 Click "Giga-TMS" & "Next"

MTareDemo - InstalShie	d Mand
	Satur will add program controls the Program Folder inter below rou may tope a new totler name, to select one from the existing Folders let. Click Next to continue. Program Folders Easting Folders Easting Folders Easting Folders Administrative Fools Statup TouchSet Touch Panel
hereit an	e Back Nest 2 Carcel

1.3.5 Click "Next"

MfareDemo - InstalShie	d Wizard 🛛 🔀
	Setup has enough information to start copying the program files. If you want to review or change any settings, dick Black. If you are satisfied with the settings, dick Next to begin copying files. Durant Settings
	Setup Type Complete Taget Folder E-Vrogram File/USIGA-TMS/WitwelDama Uses Information Name P16000 Company:
FoodState :	e Back Nexts Cancel

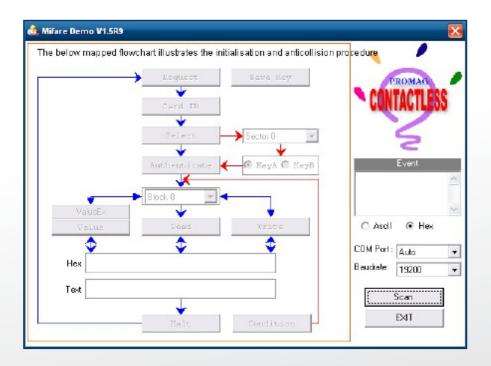
1.3.6 Click "Next"

MfareDemo - InstalShiek	l Wizard
	Setup has finished copying lifes to your computer Setup will now found the program. Select your option before
	T Yes, Launch the program file
20	Click, Finish to complete Satup
No. 25.58	Firsch

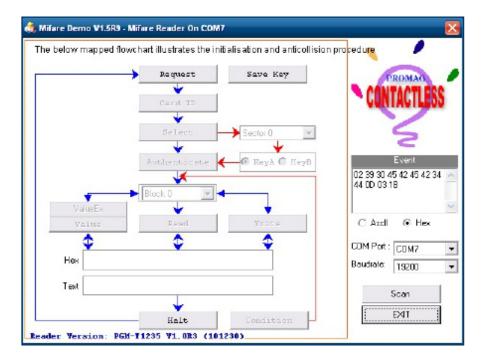
2 Run RFID demo program. Start -> All Programs -> GIGA-TMS -> Mifare Demo



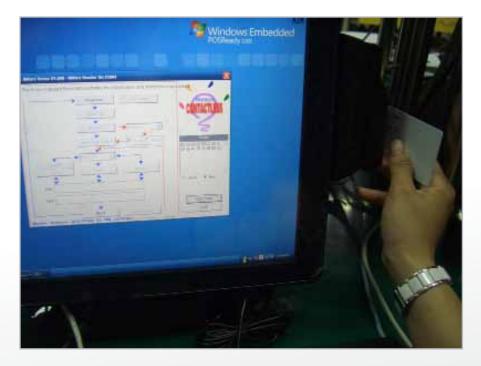
2-1 Run "Auto Scan" Demo AP will detect the RFID reader automatically. Or select the RFID COM port



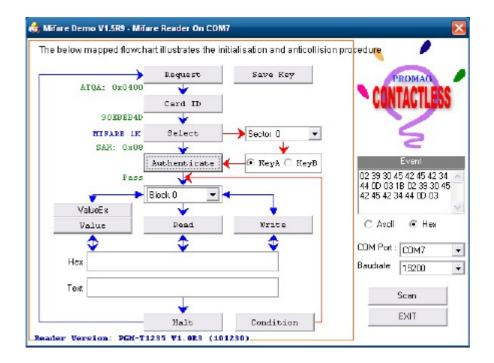
2-2 After finishing the AutoScan, Request box will be ready for the click and Reader Version will show on the position as marked. (Reader Version: PGM-T1235 V1.0R3 (101230) Place Mifare Card to the RFID reader area. Event Dialog window gets the data from the Mifare Card



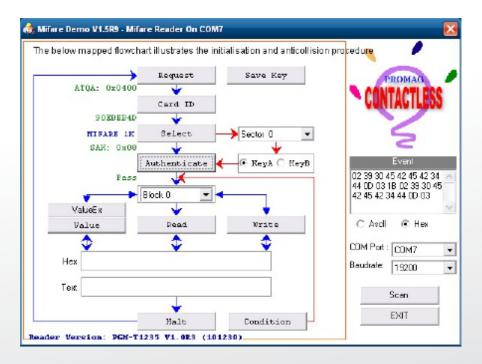
Close the RFID card to RFID reader



- 2-3 Card type will be recognized when you click "Request".
 - (Your Mifare card should be placed on the RFID reader area.)



2-4 Card ID will be recognized when you click "Card ID".

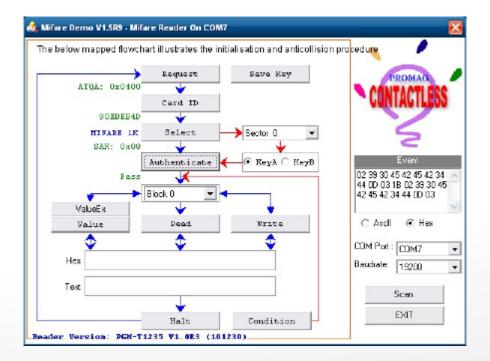




2-5 SAK will be read when you click "Select".

	Lequest	Save Key	PROMAG
ATQA: 0x0400	*		S CONTACTI
	Card ID		CUNIAGI
90KBEB4D	*		
MIFARE LE	Select	> Sector 0 🛛 🔍	5
SAR: 0x09	*	¥	-
L.	Authenticate	🔶 🕙 Keyà 🗋 KeyB	Event
Pass			02 39 30 45 42 45 - 44 0D 03 1B 02 39
	Block 0 📃 🚽	•	42 45 42 34 44 DD
ValueE ĸ	¥	•	
Value	Read	Write	C Aadl 💿 H
•	۰ 🗘		COM Port : COM7
Hex	0.00 m		
HGA			Baudrate 19200

2-6 The result will show when you click "Authenticate"



5-1. VFD Specification



General	Display Method	Vaccum Fluorescent Display (Blue-green)
	Number of characters	40 (20 columns x 2 lines)
	Brightness	500~1000 cd/m2
	Character front	5x7 dot matrix
	Character type	95 Alphanumeric, 32 International Charaters
	Character size	6.75(H) x 3.75(W) mm
	Dot size (X xY)	0.55x0.75 mm
	Download charaters	9 charaters
	Lleicht	4.70" (120mm) with stand-alone base
	Height	9.80" (250mm) with base and 1 extension
	Panel Dimension	75(H)x170(W)x50(D) mm
	Pole Dimension	Per support length: 130 mm
	Base Dimension	33(H)x159.8(W)x100(D) mm
	Viewing Angle	Max. 90°
	Horizontal Rotation	Max. 355°
	Weight	Approx. 980 grams
Commands Mode		LD220, EPSON, AEDEX, UTC/S, UTC/P, ADM788, DSP800, CD5220, EMAX, LOGIC CONTROL, Ultimate
Language Support		US English, Int'l English, Bosnia, Croatian, Czech, Danish, Dutch, Estonain, Faroese, Finnish, Flemish, French, Fr Canadian, German, Greek, Hebrew, Hungarian, Icelan- dic, Indonesian, Irish, Italian, Katakana, Lativian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Slo- vene, Slovak, Spanish, Swedish
Interface		RS-232 (serial) / USB
Reliability	Baud rate	Direct connection 9600 or 19,200 bps
Connection	МТВБ	30,000 hours
Power	Consumption	5~12 VDC
Safety	EMC standards Safety standards	FCC, CE

SETUP SOFTWARE GUIDE

- 1 Power on, and waiting test page of EEPROM test, Baud rate, and Command page. And you may set up the customer display by "VFD_Setup.exe" Utility.
- 2. To execute "VFD_Setup.exe" for setup communication between display and Utility

ComPort Soloof : Com1	3	t Load	Set All Default
Bued Rate : 9800.n81	Got Sotting FromVFD	Sarve	Download Getting To VFD
Command Soft	n Viekom	Ming	User Defined Gharacter
Character Type :	US4/Eurpope (Default)	-	
Commend Rode :	EPSON (Default)	•	
Baud Rate Solvot :	9000,n;8,1 (Default)	•	
Passathru Node :	None (Default)	*	

The Baud Rate will show on states page of the Utility (Note: You may check it when power on the display)

3. "Get Setting From VFD" button

To get all setting from the display and It'll refresh the "VFD_Setup.exe" utility

4. "Character Type" / "Comand Mode" / "BaudRate Selcet" / "Passthru Mode" Please refer to Chapter 4-5 user manual

Character Type :	USA/Eurpope (Default)	-	Command Mode :	EPSON (Default)	*
	USA/Eurpope (Default)			LD220	
	FRANCE			EPSON (Default)	
Command Mode :	GERMANY		BaudRate Select :	UTC/S	
oommand mode .	U.K			UTC/P	
	DENMARK I			AEDEX	
	SWEDEN			ADM788	_
BaudRate Select :	ITALY		Passthru Mode :	DSP800	
	SPAIN	-		CD5220	-

BaudRate Select :	9600,n,8,1 (Default)	¥
	9500,n,8,1 (Default) 19200,n,8,1	
Passthru Mode :	None (Default)	+

5. "Set All Default" button To show default setting, the Default table is,

Character Type: USA Command Type: EPSON BaudRate Setting: 9600/n/8/1 Passthru Mode: None Welcome msg line1: ***VFD DISPLAY*** Welcome msg line2: ***HAVE A NICE DAY AND THANK YOU***

6. Welcome Msg

Welcome Msg line1 maximum 20 characters, line 2 maximum 20 characters, total of 40 characters.

a. ASCCII mode

Com Port Select : Com 1 Buad Rate : \$600,n,0,1	Get Setti	ng From VFD	Load Save	Set All Download S	Default etting To VF (
Command Setting	Ţ	Welcome M	19 L	User Defined	Character
Welcome Msg 1 0 ASCII	5 VFD	10 D I S F	15 L A Y	20	Clear
Hex Welcome Hisg 2					
	5	10	15	20	Clear
ASCII · H		ANIC	EDA	Y A N	

You can type the character by keyboard (0x20h^o0x7Fh), if you press clear icon, it will clear the all Msg charaters on AP.

b. Hex mode

Hex mode can define the character from 0x20h to 0xFFh, the range 0x80~0xFF



wich depends on the code page table.

Welcome																				
C ASCII																			Clea	r
(# Hex	0	~				5				10					15					20
☞ Hex	0	-	2A	48	41	5 56	45	20 4	11 20	_	49	43	45	20	15 44	41	59	20	41	20 4E
☞ Hex	0	_	2A	48	41	-	45	20 4	11 20	_	49	43	45	20		41	59	20	41	-

Like the first character (0x80) in default code page will show Ç on display

7. "Download setting to VFD" button

This button is to download the setting from VFD_Setup.exe to display. *After success dialog "Download O.K.! Please restart!" message popped up, you

VFD	×
Download O.K ! Please	restart !
確定	

8. "Save" button

To save user's setting in file, example: below picture to save file name as "Rename-Goodluck" file set for Welcome Msg. P.S: The default setting named "VFD.vfd" which can't be made any setting change.

9. "Load" button

For saving your time, you could load any setting file which you made before the display. You must restart the display for enable the new settings.

i-Button Reader Configuration Utility

The i-Button Reader Configuration Utility is used to set up the output format of HID MSR

Installation

Below steps guide you how to install the Utility program.

- Insert the setup CD.
- Run the HID_MSR_PSW00003_V2_0_0.exe setup file that is located in the Software folder of CD.
- Follow the wizard to complete the installation.

Launching Program

Below steps guide you how to load the Utility program.

- From Start/Programs, click HID_MSR2 folder.
- Click MagStripe Card Reader Configuration Utility to launch the program.



- The utility program will detect the connected reader. If detected, all the input text boxes will be enabled.
- If the reader has not been connected to PC yet, please connect the reader and then click Refresh to get connected.

Configuration

Below is the main window of i-Button Utility program.

		ISO Tracks	AAMVA Tracks	JIS2	iButton
Mach:	Prefix	S N	utfix	Error Mess	age Extract From Length
Remove:	Pretix	S S	uttix	Message	Extract From Length
SS ES:	<u> </u>	Output Orde Attach: Remove	er 0- All 0- All	•	
essage: [Device Founi	9			

For the settings, there are:

- Prefix/Suffix: Defines the data string which you would like to append in front or end of the i-Button key string.
- Error Message: Indicates error message when i-Button key read fail.
- Message: Indicates message when i-Button key read correctly.
- SS/ES : Define Start and End sentinel byte for the i-Button ID string.
- Length : i-Button ID length request from 0~16.
- Output order : 4 format could be select at Attach /Remove i-Button ID.

ttach	0- All	*
Remove:	0-All	
temove.	1- CRC.ID 2-ID.FC	

Update Settings

Once complete the settings, click Update to update the settings to connected HID MSR reader.

Save Settings

To save the settings to a file, click Save; specify the file name and location to be saved.

Open Settings

To load pre-saved settings, click Open, specify the settings file, and then click OK to load into program.

Restore MSR Reader Settings

To load restore settings of connected MSR reader, click Restore ES2: End sentinel for track.

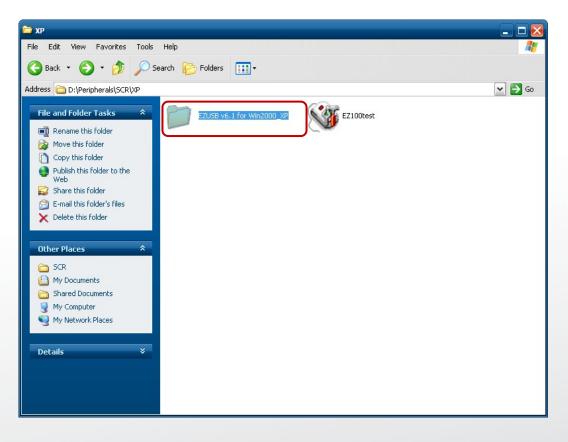


Installation and Testing of Smart Card Reader

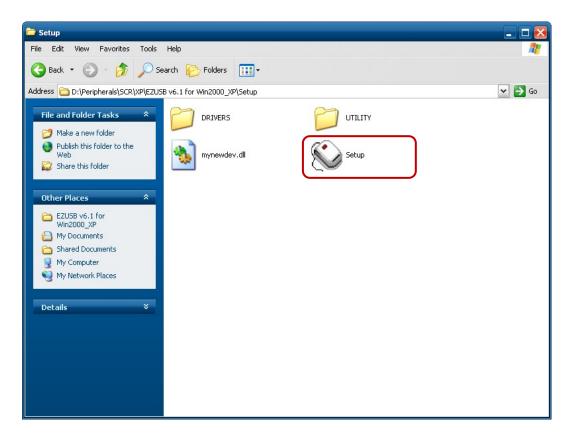
1. Check smart card reader be detected by "Device manager".

🖳 Device Manager	. 🗆 🔀
File Action View Help	
ABFXFH4RTAVQL28 Batteries Computer Disk drives Disk drite Disk drives Disk drives Disk drite Disk drite	

2. Install the SCR driver.



3. Run Setup.exe.



4. Click "Yes".



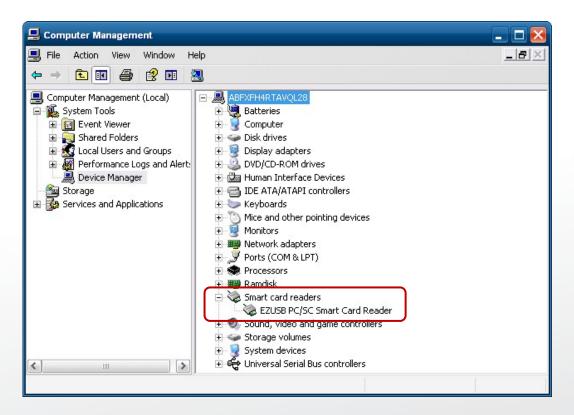


📚 EZUSB Series Reader Driver Setup Program v6.1	- • ×
EZ100PU/EZmini/Pisces Driver Setup	
Yes No	

5. Restart systems.

System S	Settings Change
?	You must restart your computer before the new settings will take effect. Do you want to restart your computer now?
	Yes No

6. Check SCR reader in Device Manager.



7. Run the testing program – EZ100test.

È x₽	_ 🗆 🔀
File Edit View Favorites Tools Help	
🚱 Back 🝷 💿 🔺 🏂 Search 🎼 Folders 🔛 🗧	
Address 🛅 D:\Peripherals\SCR\XP	💌 🄁 Go
File and Folder Tasks EZUSB v6.1 for Win2000_XP Make a new folder EZUSB v6.1 for Win2000_XP Publish this folder to the Web EZUSB v6.1 for Win2000_XP Share this folder EZUSB v6.1 for Win2000_XP	
Other Places 🛠	
SCR My Documents Shared Documents My Computer My Network Places	
Details ¥	

8. Conferm that SCR can be detected by the testing program, then run the program - the Start Testing.

EZ PC/SC Series Reader Testing Program v1.3		⊐ 🔀
EZ PC/SC Series F	Reader Testing Program v1	.3
<mark>∕⊘ L</mark> ist Reader	<u>S</u> tart Testing	
CASTLES EZ100PU 0	Case 1 - Card Insert/Remove Testing	,
	Case 2 - Card Reset Testing	, 5
	Case 3 - Card Read/Write Testing	D
Application	Initialized Successfully	



9. Follow dialog boxes displayed to remove and insert card.

🦉 Insert/Remove Card 📃 🗖 🔀
Please REMOVE card and see if the light is GREEN
Stop
Sinsert/Remove Card
Please INSERT card and see if the light is RED
Stop

10. After finishing the testing, the dialog box will show "oK".

V EZ PC/SC Series Reader Testing Program v1.3	_ 🗆 🖂	
EZ PC/SC Series	Reader Testing Program v1.3	
📎 <u>L</u> ist Reader	<u>S</u> tart Testing	
CASTLES EZ100PU 0	✓ Case 1 - Card Insert/Remove Testing 100 % ✓ Case 2 - Card Reset Testing	
OK	Case 3 - Card Read/Write Testing	
Reader Testing Successfully		

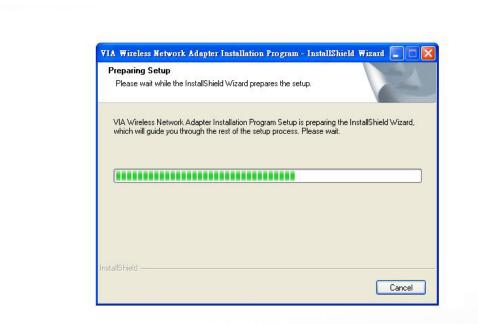
Wi-Fi

1. Install the Wi-Fi driver.



2. Run Setup.exe.

9271_Wind...

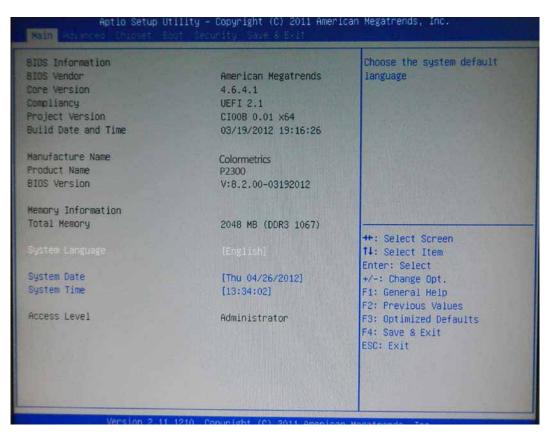




BIOS/UTILITY SETUP

6-1. BIOS/Utility setup

Press / <F2> key to enter BIOS SETUP UTILITY when system boot up.m boot up.



Please press / <F2> key tenderly and slowly.

Date and Time

The Date and Time items show the current date and time on the computer. If you are running a Windows OS, these items are automatically updated whenever you make changes to the Windows Date and Time Properties utility.

WARNING

Setting the wrong values in the sections below may cause the system to malfunction. Make sure that the settings made are compatible with the hardware.

6-2. Advanced

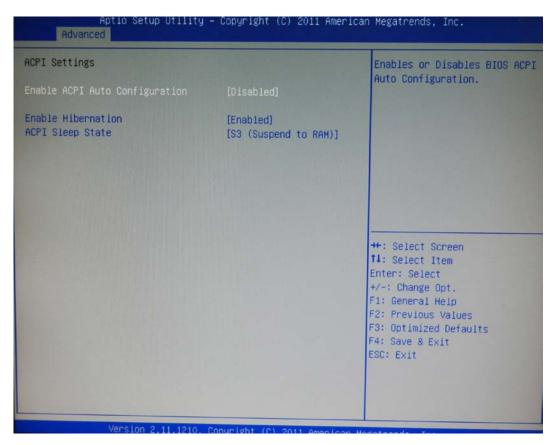
Use the Advanced menu to configure the CPU and peripheral devices through the following sub-menus:

Legacy OpROM Support Launch PXE OpROM	[Enabled]	Enable or Disable Boot Option for Legacy Network Devices.
ACPI Settings S5 RTC Wake Settings CPU Configuration SATA Configuration Intel IGD SWSCI OpRegion USB Configuration IT8783F Super IO Configuration IT8783F H/W Monitor	n	
		++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit



6-2.1 ACPI Configuration

The ACPI Configuration menu configures the Advanced Configuration and Power Interface (ACPI) options



ACPI Sleep State

Use the ACPI Sleep State option to specify the sleep state the system enters when it is not being used.

1. Suspend Disabled

2. S1 (CPU Stop Clock)

DEFAULT The system enters S1 (POS) sleep state. The system appears off. The CPU is stopped; RAM is refreshed; the system is running in a low power mode.

3. S3 (Suspend to RAM)

The caches are flushed and the CPU is powered off. Power to the RAM is maintained. The computer returns slower to a working state, but more power is saved.

6-2.2 S5 RTC Wake Settings

Enable or disable system wake on alarm event. When enabled, system will wake on the hr::min::sec specified.

Aptio Setup Utility Advanced	– Copyright (C) 2011	American Megatrends, Inc.
ake system with Fixed Time	[Disabled]	Enable or disable System wak
Wake system with Dynamic Time	[Disabled]	System will wake on the hr::min::sec specified
		++: Select Screen
		t↓: Select Item Enter: Select +/-: Change Opt.
		F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit



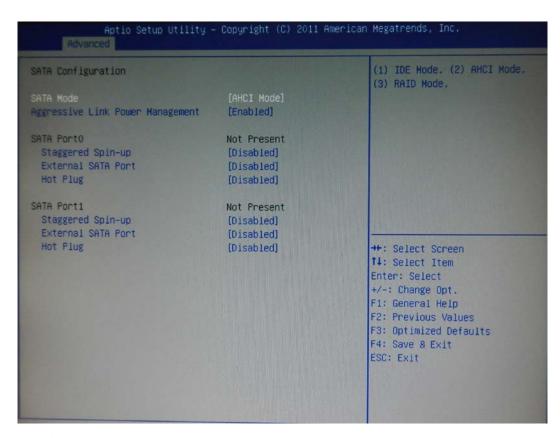
6-2.3 CPU Configuration

Use the CPU Configuration menu to enter the CPU Information submenu or setup Intel CPU parameter.

CPU Configuration		Socket specific CPU Informatio
Socket 0 CPU Information		
CPU Speed 64-bit	2500 MHz Supported	
Active Processor Cores Limit CPUID Maximum Execute Disable Bit Hardware Prefetcher Adjacent Cache Line Prefetch Intel Virtualization Technology Power Technology Factory long duration power limit Long duration power limit Factory long duration maintained Long duration maintained Recommended short duration power 1 Short duration power limit	[A11] [Disabled] [Enabled] [Enabled] [Disabled] [Disabled] [Energy Efficient] 65 Watts 0 1000 ms 0 1.25 * Long Duration 0	<pre>#*: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

6-2.4 SATA Configuration

Use the SATA Configuration menu to change and/or set the configuration of the SATA devices installed in the system.



SATA Mode

Use the SATA Mode option to configure SATA devices as normal IDE devices.

Disable	Disables SATA devices.
IDE Mode	Configures SATA devices as normal IDE device.
RAID Mode	Configures SATA devices as RAID device.

6-2.5 Intel IGD SWSCI OpRegion Configuration

Use the Configuration menu to change and/or set the configuration of the internal graphics devices installed in the system.

Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc. Advanced		
Intel IGD SWSCI OpRegion Con	figuration	Select DVMT Mode used by Internal Graphics Device
DVMT Mode Select DVMT/FIXED Memory IGD - Boot Type LCD Panel Type	[DVMT Mode] [256MB] [VBIOS Default] [1024x768 LVDS]	
		++: Select Screen f4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

DVMT Mode

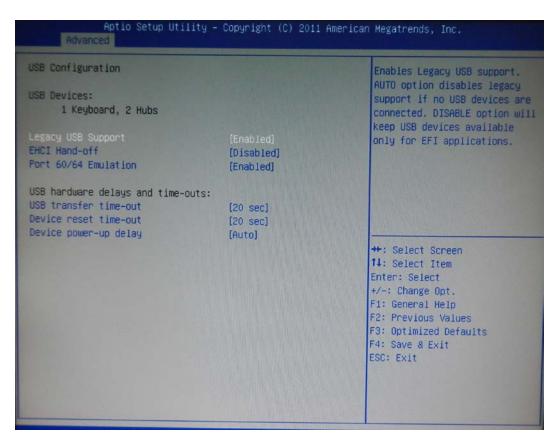
Use the DVMT Mode option to configure internal graphics device.

DVMT/FIXED Memory

Use the option to configure memory size of internal graphics device.

6-2.6 USB Configuration

Use the USB Configuration menu to read USB configuration information and configure the USB settings.



USB Devices

The USB Devices Enabled field lists the USB devices that are enabled on the system.

Legacy USB Support [Enabled]

Use the Legacy USB Support BIOS option to enable USB mouse and USB keyboard support. Normally if this option is not enabled, any attached USB mouse or USB keyboard does not become available until a USB compatible operating system is fully booted with all USB drivers loaded. When this option is enabled, any attached USB mouse or USB keyboard can control the system even when there is no USB driver loaded onto the system.

- Disabled Legacy USB support disabled
- Enabled Legacy USB support enabled



6-2.7 IT8783F Super IO Configuration

Use the Super IO Configuration menu to set or change the configurations for parallel ports and serial ports.

Aptio Setup Utility Advanced	– Copyright (C) 2011	l American Megatrends, Inc.
IT8783F Super IO Configuration		Set Parameters of Serial Port
IT8783F Super IO Chip Serial Port 1 Configuration Serial Port 2 Configuration Serial Port 3 Configuration Serial Port 4 Configuration Parallel Port Configuration	IT8783F	0 (COMA) **: Select Screen 14: Select Item Enter: Select */-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

6-2.8 Serial Port n Configuration

Use the Serial Port n Configuration menu to configure the serial port n.

Serial Port 1 Configuration		Enable or Disable Serial Port (COM)
Serial Port Device Settings	[Enabled] IO=3F8h; IRQ=4;	(cony
Change Settings	[Auto]	
		++: Select Screen †↓: Select Item Enter: Select +/-: Change Opt. F1: General Help
		F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

Serial Port [Enabled]

Use the Serial Port option to enable or disable the serial port.

Disabled	Disable the serial port
Enabled	Enable the serial port

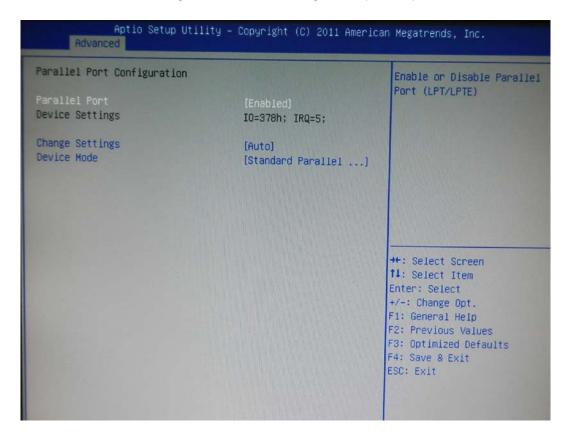
Change Settings [Auto]

Use the Change Settings option to change the serial port IO port address and interrupt address. Auto The serial port IO port address and interrupt address are automatically detected.



6-2.9 Parallel Port Configuration

Use the Parallel Port Configuration menu to configure the parallel port.



6-2.10 H/W Monitor

The H/W Monitor menu shows the operating temperature and fan speeds.

Aptio Setup Utility Advanced	– Copyright (C) 2011	American Megatrends,	Inc.
Pc Health Status			
System temperature1 Fan1 Speed	: +57 % : 3792 RPM		
		++: Select Scr fl: Select Ite Enter: Select +/-: Change Op F1: General He F2: Previous V: F3: Optimized (F4: Save & Exit ESC: Exit	m t. lp alues Defaults



6-3. Chipset

Use the Chipset menu to access the Northbridge and Southbridge configuration menus.

WARNING

Setting the wrong values for the Chipset BIOS selections in the Chipset BIOS menu may cause the system to malfunction.

North Bridge South Bridge ME Subsystem	North Bridge Parameters
	++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help
	F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

6-3.1 Northbridge Configuration

Use the Northbridge Chipset Configuration menu to configure the Northbridge chipset.

Memory Information		Low MMIO resources align a
Total Memory	2048 MB (DDR3 1067)	64MB/1024MB
Memory Slot0	2048 MB (DDR3 1067)	
Memory Slot1	0 MB (DDR3 1067)	
Memory Slot2	0 MB (DDR3 1067)	
Memory Slot3	0 MB (DDR3 1067)	
DMI Gen2	[Enabled]	
VT-d	[Disabled]	++: Select Screen
Initiate Graphic Adapter		↑↓: Select Item
IGD Memory	[PEG/IGD]	Enter: Select
Render Standby	(64M)	+/-: Change Opt.
IGD Multi-Monitor	[Enabled]	F1: General Help
the second contraction	[Disabled]	F2: Previous Values
PCI Express Port	[Auto]	F3: Optimized Defaults
PEG Force Gen1	[Disabled]	F4: Save & Exit
Detect Non-Compliance Device	[Disabled]	ESC: Exit
	1012001601	
MRC Message Print	[Disabled]	

Initiate Graphic Adapter [PEG/IGD]

Use the Initiate Graphic Adapter option to select the graphics controller used as the primary boot device. Select either an integrated graphics controller (IGD) or a combination of PCI graphics controller, a PCI express (PEG) controller or an IGD.

Configuration options are listed below:

IGD
PCI/IGD
PCI/PEG
PEG/IGD DEFAULT
PEG/PCI

IGD Memory [64 M]

Use the IGD Memory option to specify the amount of system memory that can be used by the internal graphics device.

6-3.2 Southbridge Configuration

Use the Southbridge Configuration menu to configure the Southbridge chipset.

Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc. Chipset		
SB Chipset Configuration SMBus Controller	[Enabled]	Enabled/Disabled SMBus Controller.
Restore AC Power Loss	[Power Off]	
Serial Port 1 Voltage Select	[STD]	
Serial Port 2 Voltage Select	[STD]	
Audio Configuration Azalia HD Audio	[Enabled]	
 PCI Express Ports Configuration USB Configuration 		<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>

Serial Port 1/2 Voltage Select [STD]

Select "COM1/2 PIN9 Function" and press <Enter> to setup COM 1/2 PIN9 function.

ITEM	Option	Descriptions
COM1 PIN9 Function	STD (Default)	COM1/2 Pin9 select RING function
COM2 PIN9 Function	5V 12V	COM1/2 Pin9 select 5V/12V function

6-3.3 ME Subsystem

Use the ME Subsystem menu to configure the Intel® Management Engine (ME) configuration options.

Aptio Setup Ut. Chipset	ility – Copyright (C) 2011 /	American Megatrends, Inc.
Intel ME Subsystem Configurat	tion	ME Subsystem Help
HE Version	7.1.20.1119	
ME Subsystem ME Temporary Disable End of Post Message	[Enabled] [Disabled] [Enabled]	
Execute MEBx MEBx Mode	[Enabled] [Normal]	
▶ Integrated Clock Chip Config	uration	<pre>++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>



6-3.4 Boot

Use the Boot menu to configure system boot options.

Aptio Setup Utility – Copyright (C) 2011 American Megatrends, Inc. Main Advanced Chloset <mark>Boot</mark> Security Save & Exit		
Boot Configuration Setup Prompt Timeout Bootup NumLock State Quiet Boot	1 [0n]	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
Boot Option Priorities Boot Option #1	[Disabled] [PCI ROM Setup, BO2]	
BEV Device BBS Priorities	1 of Kon Setup, Boz]	
		++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

Bootup NumLock State [On]

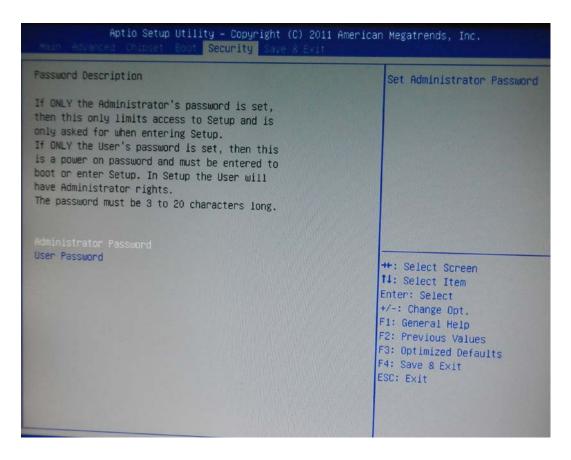
Use the Bootup NumLock State BIOS option to specify if the number lock setting must be modified during boot up.

Quiet Boot [Enabled]

Use the Quiet Boot BIOS option to select the screen display when the system boots.

6-3.4 Security

Use the Security menu to set system and user passwords.



Administrator Password

Use the Administrator Password to set or change an administrator password.

User Password

Use the User Password to set or change a user password.

6-3.5 Save & Exit

Use the Save & Exit menu to load default BIOS values, optimal failsafe values and to save configuration changes.

Aptio Setup Utility – Copyright (C) Main Advanced Chipset Boot Security Save & E	
Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset Save Options Save Options Discard Changes Restore Defaults Save as User Defaults Restore User Defaults Restore User Defaults	Exit system setup after saving the changes.
Boot Override PCI ROM Setup, BO2 DOO FO Launch EFI Shell from filesystem device	++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

LCD Surface Cleaning

1. How to clean the LCD surface properly?

Do not spray any liquids on the LCD screen directly, and do not use paper towels, this can cause the LCD screen to become scratched.

Always apply the solution to your cloth first, not directly to the parts you are cleaning. You want to avoid dripping the solution directly into your computer or laptop.

Stroke the cloth across the display in one direction, moving from the top of the display to the bottom.

2. What are some of the basic supplies needed to clean an LCD screen?

A soft cotton cloth. When cleaning the LCD screen it is important to use a soft cotton cloth, rather than an old rag. Some materials, such as paper towels, could cause scratches and damage the LCD screen.

Solution of water and isopropyl alcohol. This solution can be used along with the soft cotton cloth.

Computer wipes. Only use these if they specifically state on the package they are designed for LCD laptop screens. Computer wipes can come in handy for fast clean-ups or when you want to avoid mixing up a cleaning solution yourself.

3. What types of cleaners are acceptable?

- Water
- Vinegar (mixed with water)
- Isopropyl Alcohol

NOTICE: The following cleaners are unacceptable:

- Acetone
- Ethyl alcohol
- Ethyl acid
- Ammonia
- Methyl chloride



CE Notice

This device complies with the requirements of the CE directive.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiated radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interface cables must be used in order to comply with emission limits.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WEEE Notice

This appliance is labelled in accordance with European Directive 2002/96/EC concerning waste electrical and electronic equipment (WEEE). The Directive determines the framework for the return and recycling of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive.

