

P3100 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.

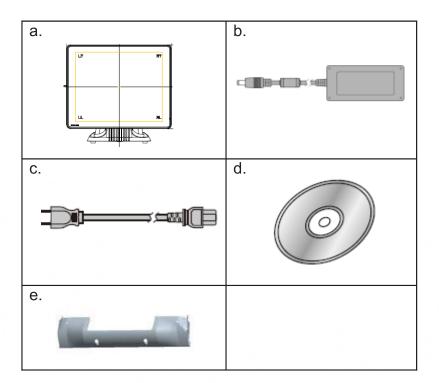
Do not remove the cover, and ensure no user serviceable components are inside. Take the unit to the service center for service and repair.

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1 PACKING LIST

1-1 Standard Accessories



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

1-2 Optional Accessories

Modules*:

MSR 1D/2D barcode scanner RFID (13,56 MHz) iButton Smart card reader Fingerprint reader Addimat waiter key

Accessories:

Build-in VFD Pole VFD 8" pole customer display 15" pole customer display UPS battery

*Note: Nearly all modules are also available as 2-in-1 or 3-in-1 solution.



2-1 Front/Rear View

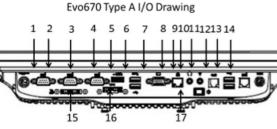
Item

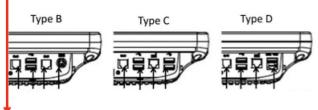
- 1. 19V DC Input
- 2. COM2
- 3. COM1
- 4. COM3
- 5. E-SATA&USB
- 6. USB 2.0 X1 & 3.0 X 1
- 7. VGA
- 8. LAN port
- 9. Line-out
- 10. Mic-in
- 11. RJ11(Cash drawer)(COM6)
- 12. USB 2.0 x2
- 13. RJ45(COM4)
- 14. PS2(K/B)
- 15. Parallel port (Option)
- 16. UPS port(Option)
- 17. Power Button
- 18. RJ11(Cash drawer)(COM6)
- 19. USB 2.0 x2
- 20. RJ11(Cash drawer)(COM4)
- 21. PS2(K/B)
- 22. RJ11(Cash drawer)(COM6)
- 23. USB 2.0 x2
- 24. RJ45(COM4)
- 25. USB 2.0 x2
- 26. RJ11(Cash drawer)(COM6)
- 27. USB 2.0 x2
- 28. RJ45(COM4)
- 29. Powered 24V USB
- 30. Cover for MSR/Smart Card/ i-Button/Fingerprint/ RFID
- 31. HDD Cover

6

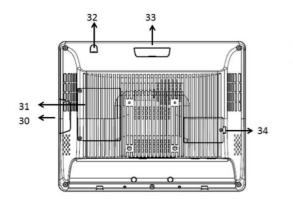
32. Antenna Cover

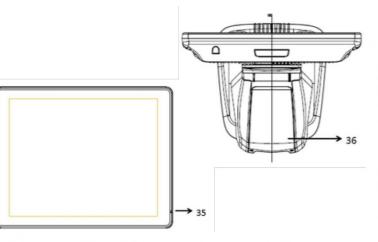
- 33. 8" 2nd Display/VFD Cover
- 34. Memory Cover
- 35. Power LED
- 36. Cover for internal access of HDD/Adapter





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



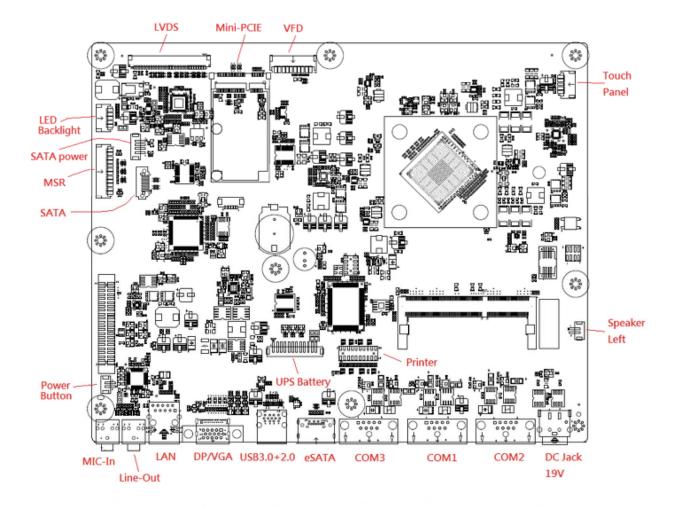


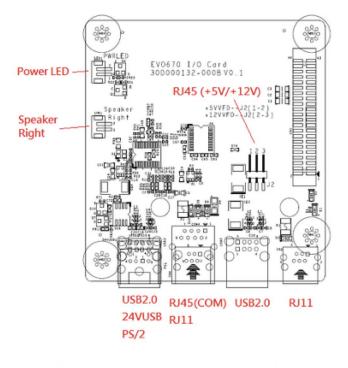
2-2 Specification

Processor	Intel® Celeron J1900 QC 2.0Ghz
Memory	One SO-DIMM socket supports DDR3L 1333 up to 8GB
Audio	Line-out/Mic-in
Network	RJ45 10/100/1000 Base-T
Storage	2.5" SATA HDD / SSD
BIOS	Insyde
Power	DC 19V 90W adaptor, 150W for Type D I/O Board
Thermal Solution	Fanless design
Dimension	410 (W) x 385.2 (H) x 296.4 (D) mm
Operating Temperature	0°C ~ 35°C
Storage Temperature	-20°C ~ 60°C
Storage Humidity	20% ~ 80%, non-condensing
Display	
LCD Panel Size	17-inch TFT Active Matrix Display
Resolution	1280 x 1024 Pixels
Brightness	250 cd/m2 /350cd/m2 (Optional)
Touch Panel	5-wire Resistive Type / Projected Capacitive Type
Tilt Angle	30°~90°



3 PIN DEFINITION





1. COM 5 for Touch Panel (CN 16)

NO.	Definition		
1	+5V		
2	RxD		
3	TxD		
4	GND		
5	N/C		

2. Printer connector

NO.	Definition	No.	Definition
1	STB#	11	PD4
2	AFD#	12	PE
3	PDO	13	PD5
4	ERR#	14	SLCT
5	PD1	15	PD6
6	INIT#	16	GND
7	PD2	17	PD7
8	SLIN#	18	GND
9	PD3	19	ACK#
10	BUSY	20	GND

3. VFD Connector CN9

NO.	Definition		
1	RTS#		
2	GND		
3	TxD		
4	RxD		
5	CTS#		
6	+5V		
7	+5V		
8	USB D-		
9	USB D+		
10	GND		

4. Speaker SPK1, SPK2

NO.	Definition
1	Speaker Out +
2	Speaker Out -



5. LVDS

No.	Definition	No.	Definition
1	RxECLK+	16	RxOCLK-
2	RxECLK-	17	GND
3	RxE3+	18	RxO2+
4	RxE3-	19	RxO2-
5	RxE2+	20	RxO1+
6	RxE2-	21	RxO1-
7	GND	22	RxOO+
8	RxE1+	23	RxOO-
9	RxE1-	24	GND
10	RxEO+	25	N/C for M-type, GND for G-type
11	RxEO-	26	N/C
12	RxO3+	27	N/C for M-type, GND for G-type
13	RxO3-	28	+5V
14	GND	29	+5V
15	RXOCLK+	30	+5V

6. LED Panel Backlight

NO.	Definition		
1	+12V		
2	GND		
3	N/C		
4	Brightness		
5	BKL Enable		

4 REAR I/O INTERFACE

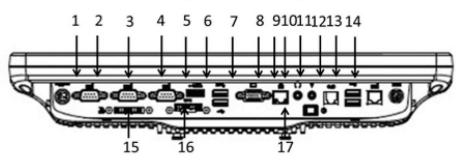
Rear I/O Drawing

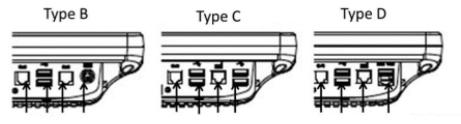
Item

- 1. 19V DC Input
- 2. COM2
- 3. COM1
- 4. COM3
- 5. E-SATA&USB
- 6. USB 2.0 x1 & 3.0 x1
- 7. VGA
- 8. LAN port
- 9. Line-out
- 10. Mic-in
- 11. RJ11(Cash drawer)
- 12. USB 2.0 x2
- 13. RJ45(COM4)
- 14. PS2(K/B)
- 15. Parallel port (Option)
- 16. UPS port(Option)
- 17. Power Button
- 18. RJ11(Cash Drawer)
- 19. USB 2.0 x2
- 20. RJ11(Cash Drawer)
- 21. PS2(K/B)

- 22. RJ11(Cash Drawer)
- 23. USB 2.0 x2
- 24. RJ45(COM4)
- 25. USB 2.0 x2
- 26. RJ11(Cash Drawer)
- 27. USB 2.0 x2
- 28. RJ45(COM4)
- 29. Powered 24V USB

Evo670 Type A I/O Drawing





1. COM1 & COM2 & COM3

No.	Definition	No.	Definition
1	DCD#	6	DSR#
2	RxD	7	RTS#
3	TxD	8	CTS#
4	DTR#	9	RI#/+5V/+12V
5	GND		



2. RJ45 VFD

No.	Definition		
1	+5V/+12V		
2	DSR#		
3	GND		
4	DTR#		
5	RST#		
6	CTS#		
7	TxD		
8	RxD		

3. VGA port

No.	Definition	No.	Definition
1	Red	9	N/C
2	Green	10	GND
З	Blue	11	N/C
4	N/C	12	I2C DATA
5	GND	13	HSYNC
6	GND	14	VSYNC
7	GND	15	I2C CLK
8	GND		

4. 2-Layer USB 3.0+2.0 connector

No.	Definition	No.	Definition
1	+5V	8	TX-
2	D-	9	TX+
3	D+	10	+5V
4	GND	11	D-
5	RX-	12	D+
6	RX+	13	GND
7	GND		

5. 2-Layer USB 2.0 connector

	No.	Definition	No.	Definition	
	1	+5V	5	+5∨	
	2	D-	6	D-	
	3	D+	7	D+	
	4	4 GND		GND	

6. PS/2 K/B port

No.	Definition	No.	Definition
1	KB_DAT	6	MS_CLK
2	MS_DAT	7	GND
3	GND	8	GND
4	+5V	9	GND
5	KB_CLK		

7. LAN port

No.	Definition		
1	MDIOA+		
2	MDIOA-		
3	MDI1A+		
4	MDI1A-		
5	MDI2A+		
6	MDI2A-		
7	MDI3A+		
8	MDI3A-		

8. RJ11 port (for Cash Drawer)(COM4)

No.	Definition	
1	GND	
2	C/D_OPEN#	
3	C/D Status	
4	+12V/+24V	
5	N/C	
6	GND	

9. RJ11 port (for Cash Drawer)(COM6)

No.	Definition
1	GND
2	C/D_OPEN#
3	C/D Status
4	+12V/+24V
5	N/C
6	GND

10. DC Jack

No.	Definition		
1	+19V		
2	Ground		
З	+19V		

11. eSATA&USB connector

No.	Definition	No.	Definition	
S1	GND	U1	+5V	
S2	SATA_TX0_P	U2	USB D-	
S3	SATA_TXO_N	U3	USB D+	
S4	GND	U4	GND	
S5	SATA_RXO_N			
S6	SATA_RX0_P			
S7	GND			

12. Powered 24V USB

No.	Definition
1	+5V
2	USB D-
З	USB D+
4	GND
5	GND
6	+24V
7	+24V
8	GND
	•

Example DOS COMMAND for Cash Drawer:

- 1. Create the file: TEST.TXT
- 2. Input below contents in TEST.TXT CONTEXT-"000.0" MODE COM4:300
- 3. Run COMMAND under DOS mode COPY TEST.TXT COM 4

Example DOS COMMAND for Cash Drawer:

- 1. Create the file: TEST.TXT
- 2. Input below contents in TEST.TXT CONTEXT-"000.0" MODE COM6:300
- 3. Run COMMAND under DOS mode COPY TEST.TXT COM 6



13. UPS

No.	Definition		
1	Batt+		
2	Batt+		
3	Batt+		
4	Batt+		
5	BAT_ID		
6	SMBCLK		
7	SMBDATA		
8	GND		
9	GND		
10	GND		
11	GND		
12	N/C		

14. LINE-OUT JACK Pin Definition

No.	Definition		
1	GND_AUD		
2	GND_AUD		
3	LINE_OUTR2		
4	LINE_OUTL2		
5	LINE2-JD		

15. MIC-in JACK Pin Definition

No.	Definition		
1	GND_AUD		
2	GND_AUD		
3	MIC1_IN		
4 MIC1_IN			
5	MIC1-JD		

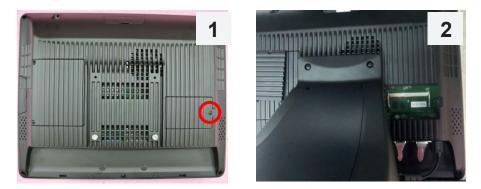
5-1 HDD



1. Unscrew 2 screws and remove the HDD cover

2. Install HDD with 4 screws

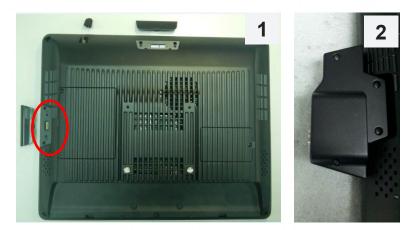
5-2 Memory



1. Unscrew 1 screw and remove the memory cover

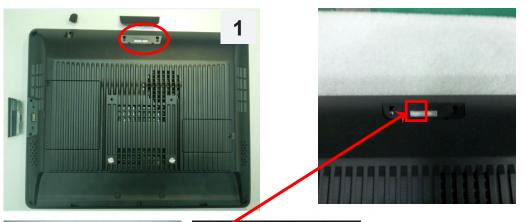
2. Install HDD with 4 screws

5-3 MSR



1. Remove MSR cover 2. Install MSR with two screws







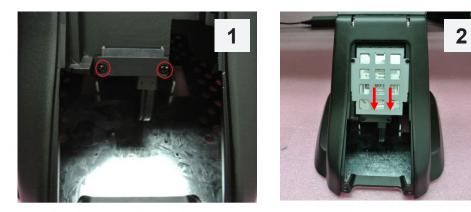






- Remove the cover
 Plug VFD cable into the 1*6 pin connector
 Install VFD with two screws

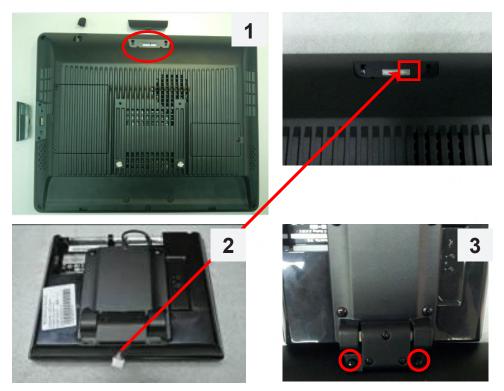
5-5 2nd HDD Kit





- Fix the e-SATA cable as the position shown in the picture 1
 Install HDD kit with two screws
- 3. Plug e-SATA cable into the position shown in the picture 3

5-6 8" 2nd Monitor



- 1. Remove the cover
- 2. Plug cable into the 1*4 pin connector
- 3. Install 8" 2nd Monitor with two screws





5-7 Adapter





Unlock two screws and then remove the cover
 Assemble the adapter bracket with two screws
 Assemble the back cover the stand with two screws



Note:

CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

The adapter bracket of P3100 is only for P3100 standard adapter (Model name: FSP150, 150W). Please don't assemble other type adapter into the stand.

5-8 1D / 2D / i-Button with RFID module

1. Cable installation.

For I-Button / RFID /1D/2D barcode scanner, please connect the cable as shown in figure

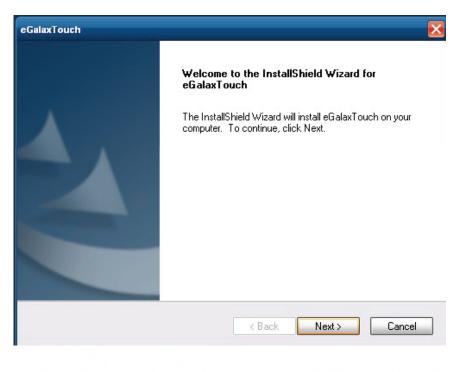
2. Fix the screws as shown in below figure.





6-1 Resistive Type Touch Panel and P-CAP

1. Click "Next"



eGalaxTouch			X
Setup Type Select the setup type that best suits your ne	eds		1.0-5
Select the setup type that best suits your he			
Extra PS/2 interface driver for eGalaxTouch Please check the check box for PS/2 touch			
Install PS/2 interface driver			
InstallShield			
	< Back	Next >	Cancel

3. Click "Next"

eGalaxTouch
Setup Type
Select the setup type that best suits your needs.
Extra RS232 interface driver for eGalaxTouch controller. Please check the check box for RS232 touch controller.
☑ Install RS232 interface driver
InstallShield
<pre></pre>

4. Select "None", Click "Next".

eGalaxTouch	X
Setup Type	
Select the setup type that best suits your needs.	
Do 4 point calibration after system reboot	
◯ E very system boot up	
O Next system boot up	
⊙ None	
InstallShield	
< Back Next > C	Cancel

5. Click "OK"





6. Select "Support Multi-Monitor System", Click "Next".

eGalaxTouch			×
Setup Type Select the setup type that best suits your needs			
If you want to use Multi-Monitor, please check t	he box.		
Support Multi-Monitor System			
InstallShield.	< Back	Next >	Cancel

7. Click "Next".

GalaxTouch
Choose Destination Location Select folder where setup will install files.
Setup will install eGalaxTouch in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\eGalaxTouch Browse
stallShield
< Back Next > Cancel

8. Click "Next".

eGalaxTouch	X
Choose Destination Location Select folder where setup will install files.	
Setup will install eGalaxTouch in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.	
Destination Folder	
C:\Program Files\eGalaxTouch Browse	
InstallShield	
Kart Cancel	

9. Click "Next"

GalaxTeach	
Select Program Folder	
Please select a program folder.	
Setup will add program icons to the Program Folder name, or select one from the existing folders list. Cli	listed below. You may type a new tolder ok Next to continue.
Program Folder:	
C. C	
Existing Folders:	
Accessmes Administrative Tools Startup	
cat Shield	< Back Next> Cancel

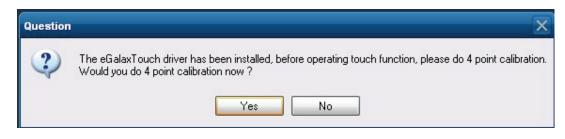


10. Select "Create a eGalaxTouch Utility shortcut on desktop", Click "Next".

eGalaxTouch	×
Setup Type Select the setup type that best suits your needs.	
Select the features you want to install, and deselect the features you do not want to install. Click Next to continue.	
✓ Create a eGalaxTouch Utility shortcut on desktop	
InstallShield	
< Back Next > Cancel	

GalaxTouch	X
Setup Status	12
eGalaxTouch is configuring your new software instal	lation.
Install USB driver	
istallShield	Cancel

11. Would you do 4 point calibration now? Click "Yes".



12. Do 4 points alignment to match display



13. Calibration utility





6-2 MagStripe Card Reader Configuration Utility

1 Combo USB HID MSR

The MagStripe Card Reader Configuration Utility is used to set up the output format of HIDMSR-20

Installation

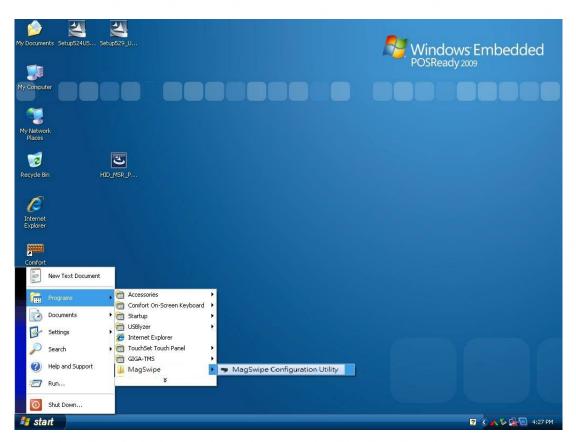
Below steps guide you how to install the Utility program.

- 1. Insert the setup CD
- 2. Run the HIDMSR-20 Utility.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 HIDMSR20 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.

🖶 HIDMSF	R-20 Utility V1.:	10	(interesting)										
File - Co	onnect Help -												
General		0. ee		ISO	Track 1		Track 2		Track 3		IButton	Attach	Remove
Package	Prefix	Suffix <enter></enter>	Å	Prefix		\$		\$		¢	Prefix	÷	
	Succeed		Ŧ	Suffix		÷.		-		-	Suffix		
Delimiter	A			Error Message		*		-		*	Error Message	÷	÷
L	-		-	Start Sentinel	%		;		+		Start Sentinel		!
Output Ord	er Track 1-Trac	:k 2-Track 3	_	End Sentinel	?		?		?		End Sentinel		?
				ExtractForm	1	×	1	A V	1	A Y	ExtractForm	1	
	Decode	Mode		Length	76	A. V	37	Å		<u>^</u>	Length	16	16
Track 1	Enabled		-	AAMVA							Output Order	All -	All 👻
Track 2	Enabled		Y		Track 1		Track 2		Track 3		_Л\$2	Track	MSR Mode
Track 3	Enabled		-	Prefix		÷.		÷		Å.	Prefix	A T	⊚ KB
			_	Suffix		Å.		÷		÷	Suffix	*	O HID Power
Language	ENGLISH			Error Message		Å.		÷.		÷	Error Message	*	o ON
C:\Progra \HIDMSR	m Files (x86)\HII !-20Utility\ENGL:)-MSR ISH.key	~	Start Sentinel	%		;		%		Start Sentinel	*	○ OFF
			Ŧ	End Sentinel	?		?		?		End Sentinel	?	Beep ON
Re	store	Update		Extract Form	1	A V	1	A V	1	A V	Extract Form		OFF
Key	board	emo MSR Swij	pe Card	Length	79	×	37	×	79	A V	Length 6	i9 🌲	Set Get

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.

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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 TK3 SU3 SU DM

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

- SU2: Suffix for track 2.
- PR3: Prefix for track 3.
- SS3: Start sentinel for track 3.
- TK3: Data for track 3, if error happens, using Error Message instead..
- ES3: End sentinel for track 3.
- SU3: Suffix for track 3.
- SU: Suffix for package.
- 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:

- 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.
- 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.
- 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.
- 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: I Track Data Filtering: Determine which track to be, not to be output or needed to be output. I 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.

	Made
TK1	Enable 💌
TK2	Disable Required Enable

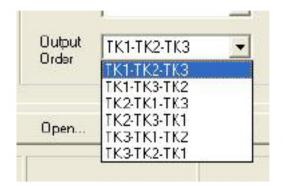
These three filter settings are:

- 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.
- 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.
- 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.



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.

2 SINGLE MSR

The MagSwipe Configuration Utility is used to set up the output format of MagSwipe

Installation

- 1. Insert the setup CD
- 2. Run the 80066804-006_Magswipe_Configuration_Software_V2_1_A setup file that is located in the Software folder of CD.
- 3. Follow the wizard to complete the installation.

Launching Program

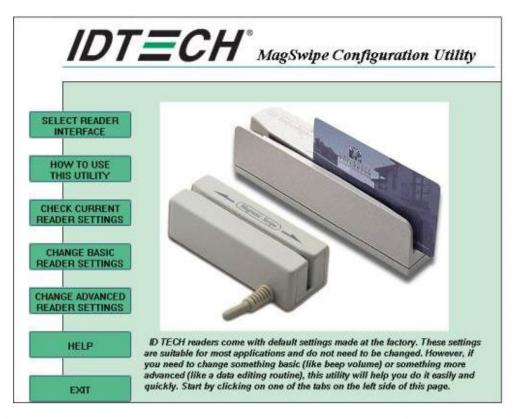
Below steps guide you how to load the Utility program.

- 1. From Start/Programs, click MagSwipe folder
- 2. Click MagSwipe Configuration Utility to launch the program.



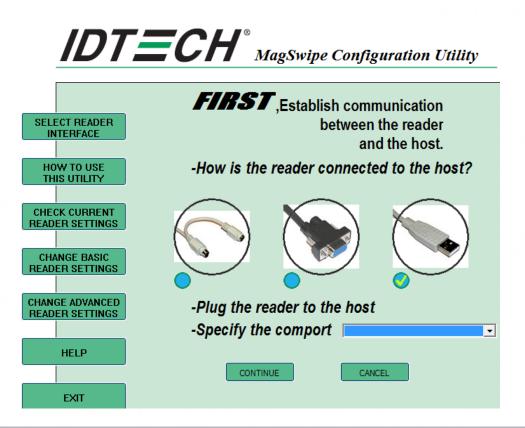
31

Configuration



Select Reader Interface

The reader to be configured should be connected. Select the corresponding connected reader interface and click the Continue button



After the interface selection is made, click the Continue button. The utility attempts to communicate with the connected reader. If successful, the Home Menu Page is displayed. The Home Menu Page is shown below



Change Basic Reader Setting

After selecting the appropriate interface for the reader, select one of the Home Menu Page buttons to proceed with the Magnetic Stripe Reader (MSR) configuration process. The "Basic Reader Settings" group defines the basic operating parameters and data output format of the reader.



	Change Basic Settings:			
	General Settings Pre/Po	stamble RS232 Para	ameters Track Settings	Keyboard Settings
ELECT READER INTERFACE	O OFF O LOV	W 💿 HIGH	O Quick HIGH	O Quick LOW
	MSR Reading			
HOW TO USE THIS UTILITY	MSR Reading Disat	led	 MSR Reading E 	nabled
	 Terminal Type IBM PC/AT 		O IBM PC/AT, Ext	enalKerboard
HECK CURRENT	 NoteBook 		~	External Keyboard
	Decoding Method		In	ter-Character Delay
CHANGE BASIC	 Raw Data 		⊙ 2 i	ms 🔿 20 ms
ADER SETTINGS	 Decoding In Both D 		0.5	ms 🔿 50 ms
	 Decoding forward d 		~	~
ANGE ADVANCED	 Decoding reverse d 	rection only	010	ims 🔿 100 ms
ADER SETTINGS				
		Default Page	Help	
HELP				

Button Definitions

Send To MSR

When all the setting parameters are selected, use the "Send To MSR..." button to send configuration data to the reader device. When the reader has received the data correctly, the settings take effect immediately.

Load From File

The configuration data can be loaded into the configuration utility from a file that has been previously saved. Select this command, start a "File Open" dialog, which allows selection of the file.

lpen								?
Look in: 🔀) MagSwipe	9	 •	4=	£	ď	•	
File name:							Оре	n

Save To File

The configuration data can be saved as a file and being used later to configure other readers. When saving a configuration the "File Save" dialog is opened as shown below. Input a filename and file location.

iave As			? ×
Savein: 🝋	MagSwipe	*1 I + E -*	 .
File name:	[Save

Default All

This button sets the reader with the default configuration parameters (the default factory settings). The settings take effect immediately. The default parameters affect all reader configurations settings.

Close

Close this dialog and return to the Home Menu Page.

General Settings

This group of configuration settings defines the basic operating parameters of the reader.



	Change Basic Setti	ngs:			
	General Settings	Pre/Postamble	RS232 Paramete	ers Track Settings	Keyboard Settings
ELECT READER INTERFACE	O OFF	O LØ₩	 HIGH 	O Quick HIGH	O Quick LOW
HOW TO USE	MSR Reading MSR Reading Disabled			 MSR Reading Enabled 	
ECK CURRENT	Terminal Type IBM PC/AT			O IBM PC/AT, Ext	
ADER SETTINGS	 NoteBook 			O IBM PC/AT, NO	External Keyboard
	Decoding Met	hod		Inte	er-Character Delay
HANGE BASIC	🔿 Raw Data			⊙ 2 m	ıs 🔿 20 ms
ADER SETTINGS	0	n Both Directions		○ 5 m	ıs 🔿 50 ms
		arward direction of everse direction of	-	0.10	
ANGE ADVANCED	O Decoding re	everse direction of	ny	010	ms 🔿 100 ms
ADER SETTINGS		Defa	uit Page	Help	

MSR Reading

This option will turn on or off the MSR. If MSR is disabled no data is sent out to host in any case. The default is MSR Reading Enabled.

Decoding Method Settings

This option gives four kinds of decoding methods. Raw Data (output in both forward and reverse directions) Decoding in Both Directions (forward and reverse reading) Decoding in Forward Direction only (card entering slot from LED end) Decoding in Reverse Direction only (card entering slot from end opposite LED)

With the bi-directional operation, the user can swipe the card in both swipe directions and the data encoded on the magnetic stripe will be output. In the single swipe direction selections, the card can only be swiped in one specified direction to read the card. The default setting will decoding card data with the card swiped in either the forward or the reverse direction.

"Raw Data" is an output of the decoded magnetic stripe data in hexadecimal format (no ASCII character conversion is performed). In the Raw Data setting, the reader outputs all

track-decoded data. The MSR will represent the raw data with two ASCII characters: the first ASCII character is for high bits of the raw data byte and the second is for the low bits. For example, the two ASCII characters "4"and "1"represent raw data byte 41h(01000001).

Beep Volume

The Beep volume can be adjusted to four loudness levels or off. Four loudness levels are:

Quick High Quick Low High Low

The default is High beep.

Terminal Type

NoteBook IBM-PC/AT IBM-PC/AT, External keyboard IBM-PC/AT, No External keyboard

The firmware can be programmed to interface as a keyboard wedge to 4 different types of terminals. The default is IBM-PC/AT.

Inter-Charater Delay :

2ms, 5ms, 10ms, 20ms, 50ms, 100ms;

This is the time period the reader will delay between sending successive characters. Some terminals or computers (host) require an inter-character delay to simulate the effects of keystroke delays. Choosing a longer inter-character delay causes the characters to be sent at a slower rate. If the host system is not capable of receiving characters as fast as the reader can transmit, setting an appropriate inter-character delay will keep the reader from overrunning the host input buffer. The default is 2ms.



Default Page Button

After you click the Default Button, the general settings page will change back to the default value. Settings are not sent to MSR until the "Send to MSR" button is clicked.

Help Button

Click the help button to open the help index for this section.

Pre/Postamble

Preamble

Characters can be added to the beginning of the reader's output string of data. These can be special characters for identifying a specific reading station, to format a message header expected by the receiving host, or any other character string. Up to nine ASCII characters can be defined for the Premable.

Postamble

The Postamble serves the same purpose as the Preamble, except the extra characters are added to the end of a data string. The Postamble can be added only after a terminator character, if specified.

Track Prefix and Suffix

For some Host applications, it may be convenient to start or end a string of reader data with a Sentinel or terminator character. The maximum Prefix/Suffix string is six charecters and its default is NULL(no prefix or suffix).

Track Start Sentinels

Characters can be added to the beginning of each track data string to simulate the start of the track data. These can be special characters for identifying a specific track.

End Sentinel

The magnetic stripe End Sentinel character can be added to the end of a magnetic stripe data string. This character simulates the end of character for track1, track2 or track3. This default is ,?'

Track Settings

IDT.	ECH[®] MagSwipe Configuration Utility
	Change Basic Settings:
	General Settings Pre/Postamble RS232 Parameters Track Settings Keyboard Settings
SELECT READER INTERFACE	Track Select O Any Track O Track1 Only Track2 Only Track1 And Track2 Track3 Only Track1 And Track3
	Track2 And Track3 All Three Tracks Track1 Or Track2 Track2 Or Track3 Send Start/End Sentinel Send LBC in Card Data
CHECK CURRENT READER SETTINGS	For Track 2 Only Send Account Number Send Error Indication
CHANGE BASIC READER SETTINGS	Track Separator: [cr] Non-Printable Cha:
CHANGE ADVANCED READER SETTINGS	Terminator: [[cr] Non-Printable Char:
HELP	Default Page Help
EXIT	Send to MSR Save to File Load from File Default All Close

Track Selection

There are three tracks of information possible on a magnetic stripe. This option selects the tracks that will be decoded (read). Note that the magnetic stripe reader must have the hardware configuration (read head and circuits) for reading the specified tracks. If a single or dual track reader is used, the heads must be positioned to read the tracks selected by this option. The default is Any Track.(All tracks written on the card will be read).

Track Separator Selection

This option allows the user to select the character to be used to separate data decoded by a multiple-track reader. The default value is CR



Send Start/End Sentinel

The reader can send the Start/End sentinel for a track, decoded without error.

Send LRC in Card Data

The reader can send the track LRC for a properly decoded track.

For Track 2 only Send Account Number

The reader can only send account Number if it is true. And if it is false, the reader sends all Track 2 data.

Send Error Indication

This option let reader to send out [SS]E[ES] if failed to read or missing data on a selected track. The default is off.

The error output for track 1 is "%E?". The error output for track 2 is ";E?". The error output for track 3 is "+E?".

Keyboard Settings

IDT:	ECH [®] MagSwipe Configuration Utility
	Change Basic Settings:
	General Settings Pre/Postamble RS232 Parameters Track Settings Keyboard Settings
SELECT READER INTERFACE	Language Option
	⊙ US O Swiss O Swedish
HOW TO USE THIS UTILITY	O Spanish(Mexico) O Norwegian O Italian
	German French Japanese
CHECK CURRENT READER SETTINGS	O UK. O Universal
CHANGE BASIC READER SETTINGS	Function Key Output O Alt Key Output
CHANGE ADVANCED READER SETTINGS	USB HID KB Polling Interval (Input value is from 1 to 295)
HELP	Default Page Help
	Send to MSR Save to File Load from File Default All Close
EXIT	Send to MSR Save to File Load from File Default All Close

Keyboard Settings

There are keybroad settings information on a magnetic stripe. MiniMag II will support following foreign language keyboard and function key output for PS/2 and USB HID Keyboard Interface.

Language Option

This option allows the user to select the keyboard language of US, Swiss, Swedish, Norwegian, Italian, Spanish(Mexico), German, French, Japanese, UK and Universal. Universal language sends out all the data as a series of ALT keyped sequence.

Function Key Output

The function key output be used to support the special key to delay card data output.

USB HID KB Polling Interview

The user can input the number between 1 to 255 for the delay of output.



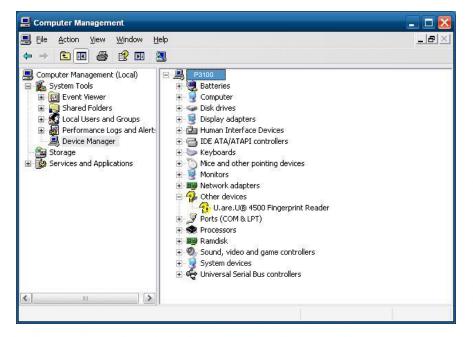
Check Current Reader Setting

After you connect the device, the current reader configuration can be displayed by selecting this button. The configuration data of the connected reader will be displayed like in the example:

Software version: MagSwipe Configuration Utility Version 2.1.0.0 Beep Volume: HIGH Track Select: Any Track Track Separator: \cr Data Format: IDT Format Terminator: \cr Send Out Format: Send Start/End Sentinel Send All Data For Track2 Not Send Error Indication Not Send LRC Enable/Disable MSR: Enabled Format & Direction: Decoding In Two Swiping Direction Track 1 7 bit encoding Start Sentinel: % Track 1 6 bit encoding Start Sentinel: % Track 1 5 bit encoding Start Sentinel: ; Track 1 End Sentinel: ? Track 2.7 bit encoding Start Sentinel: % Track 2.5 bit encoding Start Sentinel: ; Track 2 End Sentinel: ? Track 3 7 bit encoding Start Sentinel: % Track 36 bit encoding Start Sentinel: ! Track 3 5 bit encoding Start Sentinel: ; Track 3 End Sentinel: ? Preamble: Postamble: INTERFACE_TYPE: USB-RS232 Firmware Version: ID TECH ValueMag USB Virtual COM Port Reader V 3.24 OK.

6-3 Fingerprint Reader

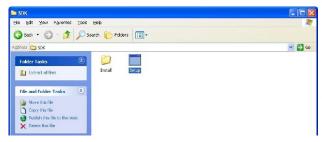
Step 1 Check Fingerprint reader be detected by "Device manager"



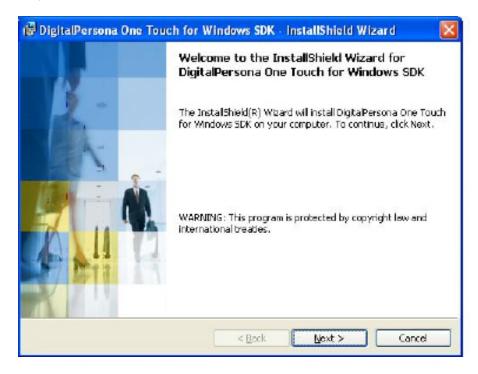
Step 2 Select SDK folder.

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in clocurers and	Settimpic	2000 Desktad	Pinuer Frint, Te	AMONOTVISD	ala. (181			~	
Feirler Tasks		0	0	0	0	1	0	-	
D Const of the		800	Max	Redst.	RTE	100	Third Ports Software	AUTORIUM	
File and Folder Tasks	8	9							
 Move the folder Copy the folder Copy the folder Converties folder 		Double							

Step 3 Run Setup.exe.



Step 4 Click "Next".



Step 5 Select "I accept the terms in the license agreement" and click "Next".

🕼 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	×
groups the terms in the license agreement) Of go not accept the terms in the license agreement Instal Shield	
< Back Dext > Cancel	

Step 6 Click "Next".

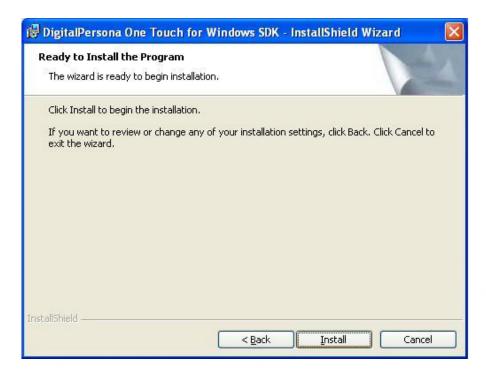
🛃 Digital	Persona One Touch for Windows SDK - InstallShield Wizard 🛛 🛛 🔀
and and a second	ion Folder at to instal to this folder, or dick Change to install to a different folder.
	Instal DigitalPersona One Touch for Windows SDK to: C:\Program Files\DigitalPersona\ Change
Instal Shield -	< Book Next > Cancel

Step 7 Click "Next".

🕼 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 in COM/ActiveX .NET Java	This feature Description This feature indudes files for C/C++ development. This feature requires 7476KB on your hard drive.
Install to: C:\Program Files\DigitalPersona\ InstallShield Help Space < Book	Vext > Carce



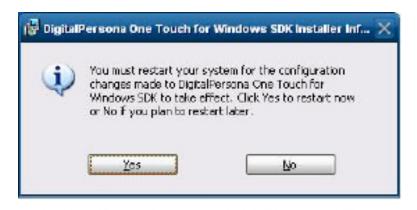
Step 8 Click "Install".



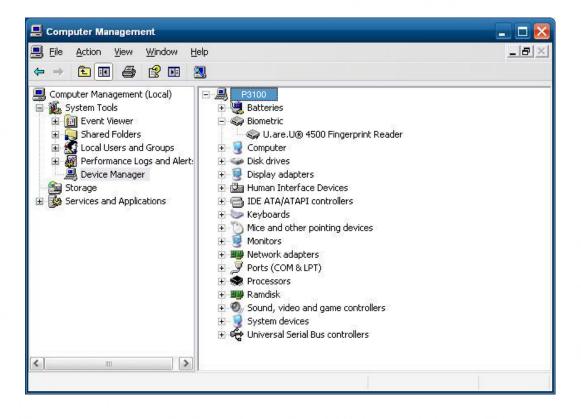
Step 9 Click "Finish".



Step 10 Restart system



Step 11 Check Fingerprint reader in Device Manager.



Step 12 Launch Fingerprint reader from start menu

Ny beannes	Windows Embedded
7	
Hy litebraik Flaces	
1	
Resycle Bin	
Administrator	
Internet Internet	
Accumation + 24	
🛅 Startup 🔸 🖮 👘 Touch Sat Touch Panel 🔸	
HD ADeck	
🔑 Remote Assistance	
All Programs 🖏 📷 topolete score Stat. + 🍋 One Topole Stat.	
No Coff 💽 Shut Down	
4 start	🏷 🕽 🎪 🧶 🗑 🔮 азэрн

Step 13 Select "COM-ActiveX"

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Address 🛅 C:\Program Files\DigitalPerso	na)One Touch SDK		💌 🛃 GD
File and Folder Tasks * Image: Rename this folder * Image: Rename this folder * Image: Copy this folder * Image: Rename this folder * Image: Share this folder * Image: Rename this folder * Image: Share this folder * Image: Rename this folder's files * Image: Rename this folder *	INET	C-C++	
Other Places			
DigitalPersona My Documants Shared Documants My Computer My Computer My Network Places			
Details ¥			

Step 14 Select "Sample"

COM-ActiveX	- 🗆 🔀
E/e Edit Yiew Favorites Icols Help	
🔇 Back 🔹 🚫 🗉 🏂 🔎 Search 🌔 Folders 🔛 -	
Address 🚞 C:\Program Files\DigitalPersonal\One Touch SDKI,COM-ActiveX	🖌 🄁 CO
File and Folder Tasks * Poles Sanclas	
Rename this folder	
🐼 Move this folder	
Copy this folder	
Publish this folder to the Web	
😂 Share this folder	
🙆 E-mail this folder's files	
× Delete this folder	
Other Places 🕆	
Cone Touch SDK	
🔁 My Documents	
Shared Documents	
😨 My Computer	
Ny Network Places	
Details	

Step 15 Select "VB6'

ڬ Samples	- 🗆 🔀
Elle Edit Mew Favorites Icols Help	
🔇 Back 🔹 🕥 🚽 🏂 Search 🌔 Folders 🔛 -	
Address 🚞 C:\Program Files\DigitalPersona\One Touch SDK\COM-ActiveX\Samples	💌 🋃 Go
File and Folder Tasks Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder Image: Comparison of the folder	
Delete this folder Other Places	
Other Places Image: Coll-ActiveX Image: Coll-ActiveX Image: Coll-ActiveX Image: Coll	
Details *	



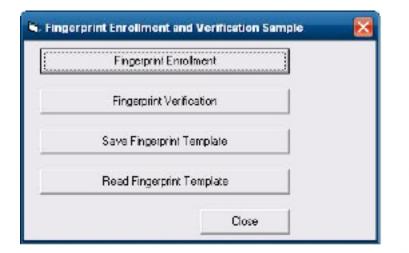
Step 16 Select "Enrollment Sample".

Des Ves	- 🗆 🔀
Elle Edit Yew Favorites Icols Help	1
🔇 Back 🔹 🕥 - 🏂 🔎 Search 🌔 Folders 🔛 -	
Address 🛅 C/IProgram Files(DigitalPersone)One Touch SDK)COM-ActiveX)Samples(VB6	💌 🄁 Go
File and Folder Tasks Image: Comparison of Comparison	
Delete the folder Other Places	
Samples My Documents Shared Documents	
Instance Image: Stance	
Details &	

Step 17 Enroll the fingerprint by the "Enrollment"

ڬ Enrollment Sample	- 🗆 🔀
Ele Edit Mew Favorites Icols Help	*
🔇 Badk 🔹 🕥 🕐 Search 🌔 Folders 🔛 -	
Address 🚞 C:\Program Files\DigitalPersona\One Touch SDK\COM-ActiveX\Samples\YB6\Enrolment Sample	💌 🄁 Go
File and Folder Tasks Errolment.fm Image: Rename this file Errolment.vbp Image: Rename this file Errolment.rename transmitter Image: Rename transmitter From File Image: Rename transmit	
Other Places A Image: WB6 Image: Wy Documents Image: Wy Computer Image: Wy Network Places	
Details ¥	

Step 18 Select "Fingerprint Enrollment"



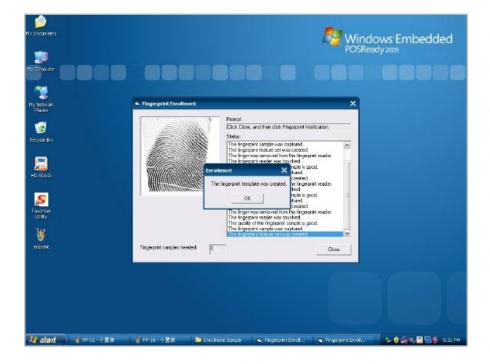
🖣. Fingerprint Enrollment	
	Prompt: Touch the lingerprint reader. Status: The lingerprint reader was connected.
Fingerprint zemplez needed: 4	Close



Step 19 Put your finger on fingerprint reader and follow the direction to enroller your fingerprint it need scan your fingerprint 4 times



Step 20 after enroller finish it will popup a dialog box

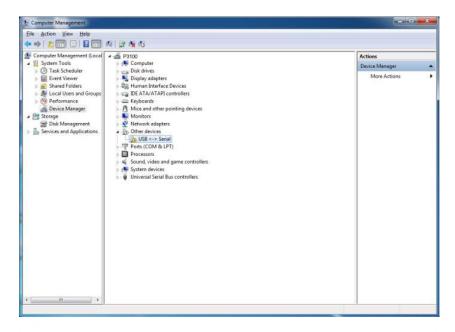


6-4 RFID

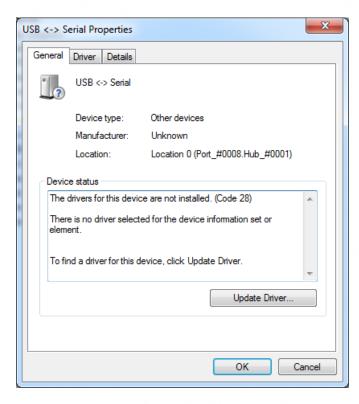
1. Install

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.)

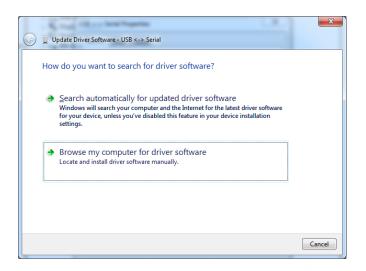


1.2 Double-click to Update driver.

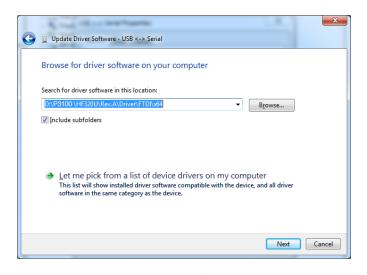




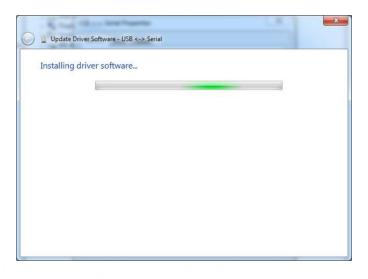
1.3 Select "Browse my computer for driver software."



1.4 Click Browse to select file called HFF320U \Driver\FTD\x64 And click Next.



1.5 Install the driver



1.6 Install complete and then click "close"

ι	JSB Serial	Converter F	roperti	es	X				
	General	Advanced	Driver	Details					
	đ	USB Serial Converter							
		Device type	e:	Universal Serial Bus controllers					
		Manufactu	rer:	FTDI					
		Location:		Location 0 (Port_#0008.Hub_#0001)					
	Device status This device is working properly.								
					~				
				OK Cancel	Help				

1.7 Restart the computer





2 Install framework 4.0

2.1 Double-click to install.

Organize 💌 Include	in library 👻 Share with 💌 Ne	ew folder		· · ·	1
🔆 Favorites	Name	Date modified	Туре	Size	
E Desktop	dotNetFx40_Full_x86_x64	3/19/2010 9:44 AM	Application	49,268 KB	
bownloads 😹					
M Recent Places					
词 Libraries					
Documents					
J Music					
Pictures					
Videos					
Computer					
🏭 Local Disk (C:)					
🕞 Local Disk (D:)					
Network					
THUNK					

Extracting files	×
Preparing: C:\6a3dbf8bcefbf427a7cc40\netfx_Core.mzz	
	Cancel

2.2 Select "I have read and accept the license terms. And click Install..

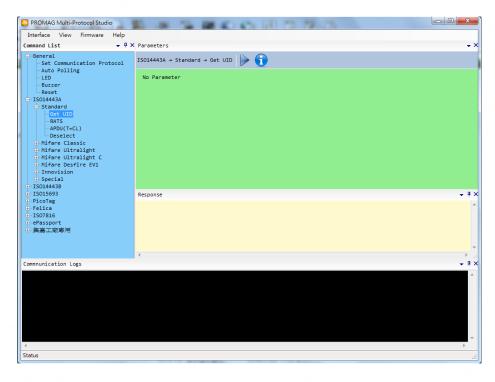
Microsoft .NET Framework 4 Se	tup		x
.NET Framework 4 Setup Please accept the license term	is to continue.	Mie .N	esoft. ET
MICROSOFT SO		* • •	
Download size estimate: Download time estimates:	0 MB Dial-Up: 0 minutes Broadband: 0 minutes		
		Install	

2.3 Click Finish.



3 Quick Start with Demonstration Software

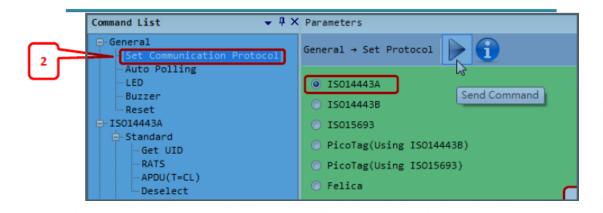
3.1 The demonstration software is "MP Studio.exe" provided in the folder "Demo Software". There is no software setup required; just double click the"MP Studio.exe". The demonstration software can run either from CD or a copy on hard drive. The GUI of software is shown in below picture and ready to use.

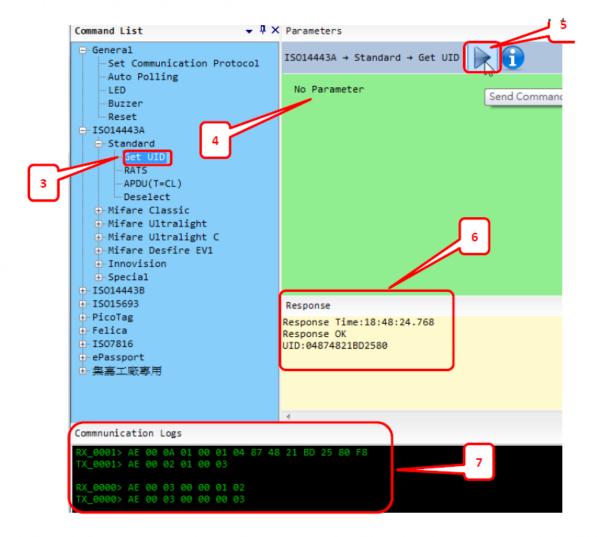


3.2 Following steps, as shown in below picture, demonstration a simple usage in reading UID of ISO14443A card for quick understanding.



Interface View Fin	mware Help	
🐬 Serial Ports 🔸	Open(1)	сом19
Set Communicat	Baudrate 🕨	014443A → Standarc
- Auto Polling - LED	Close	No Parameter





6-5 Configuration Utility of I-Button Reader

Notice: For the i-Button Reader device positioned at side MSR, there are two installation guides for two different i-Button reader device, please select correct installation guide before installation



1 The installation guide of I-Button Reader positioned at side MSR

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 HIDMSR-20 Utility.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 HIDMSR-20 Utility 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
- 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.

	nnect Help •									IDertheir		
eneral	Prefix	Suffix		- 120	Track 1		Track 2		Track 3	IButton	Attach	Remove
ackage	TIGHX	<enter></enter>	*	Prefix		\$		\$		Prefix	Å	
	~		Ŧ	Suffix		\$		\$	\$	Suffix		;
	Succeed	Failed		Error Message		4		\$	-	Error Message	Å	:
limiter	A T		÷	Start Sentinel	%		;		+	Start Sentinel		
	(=		_	End Sentinel	?	-	?	-	?	End Sentinel	1	
atput Orde	r Track 1-Track	2-Track 3	T	ExtractForm	1	Â	1	÷	1	ExtractForm	1	1 2 16
	Decode M	iode		Length	76	× A V	37		104	Length	16	16
rack 1	Enabled		-			Y		Y	Ţ	Output Order	All -	All
ack 2	Enabled		-	AAMVA	Track 1		Track 2		Track 3	ЛS2	Track	MSR
ack 3	Enabled		-	Prefix	Hatki		110CK Z	\$		Prefix		Mode KB
	LINDIGU					-		-		Suffix		💿 HID
nguage	ENGLISH		-	Suffix Error Message		*		-		Error Message	*	Power
:\Program	n Files (x86)\HID-1	MSR		Error Message Start Sentinel	%	-	;	-	%	Start Sentinel	*	ON OFF
HIDMSR-	20UtilityAENGLIS	H.key	-	End Sentinel	?	-	,	\neg	?	End Sentinel	2	Beep
					f		1		· · · ·	Extract Form	· · · · · · · · · · · · · · · · · · ·	ON (
Rest	ore	Update		Extract Form	1	A. V	1	A V	1	Extract Form	1	OFF

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 : 5 formats could be select at Attach /Remove i-Button ID

0. 0-All

- 1- CRC.ID
- 2- ID, FC

3- ID

4-Disabled

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.



2 The installation guide of I-Button Reader positioned at bottom case and side MSR

Installation

Below steps guide you how to install the Utility program.

- Insert the setup CD.
- Run the Colormetrics i-Button Utility.exe setup file that is located in the Software folder of CD.
- Follow the wizard to complete the installation.
- 1. Setup IButton _V1.0.exe software

🎭 IButton Utility Setup	
	Welcome to the installer for IButton Utility 1.01e. It is strongly recommended that you exit all Windows programs before continuing with this installation. If you have any other programs running, please click Cancel, close the programs, and run this setup again. Otherwise, click Next to continue.
	< Back Next > Cancel

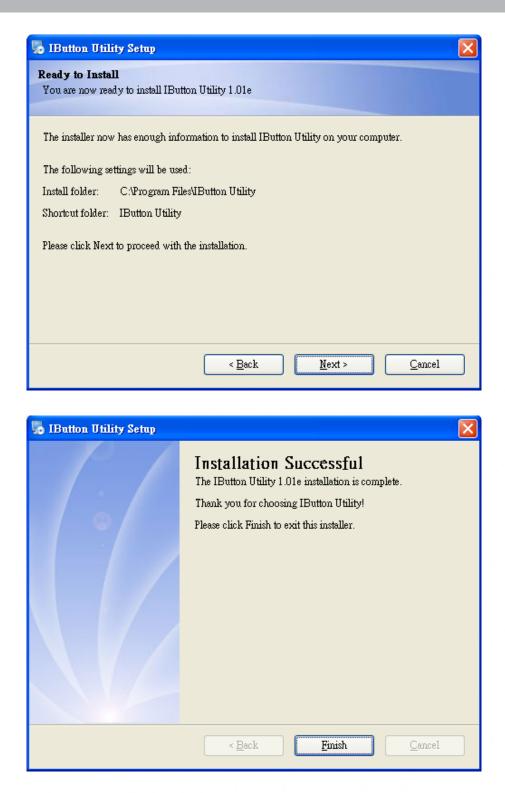
🎭 IButton Utility Setap	\mathbf{X}
License Agreement Please read the following license agreement carefully.	
Software Product Use Consent Contract	
You are permitted by COLORMECTICS ,according to the following use consent conditions of this use consent contract (henceforth, "this contract") to the nonexclusive,nontransferable right to use the software program(henceforth, "this program") and its add-ons, such as the user guide.	
• I agree to the terms of this license agreement	
I do not agree to the terms of this license agreement	
< <u>B</u> ack <u>N</u> ext > <u>C</u> ancel	

💀 IButton Utility Setup
User Information Enter your user information and click Next to continue.
Name: colormetrics
Company:
colormetrics
< <u>Back</u> <u>M</u> ext> <u>C</u> ancel

👼 IButton Utility Setup	×
Installation Folder Where would you like IButton Utility to be installed?	
The software will be installed in the folder listed below. To select a different location, either type in new path, or click Change to browse for an existing folder.	a
Install IButton Utility to:	
C. Program Files/IButton Utility Change]
Space required: 2.31 MB	
Space available on selected drive: 1.69 GB	
< <u>B</u> ack Next > Cancel]

😼 IButton Utility Setup	×
Shortcut Folder Where would you like the shortcuts to be installed?	
The shortcut icons will be created in the folder indicated below. If you don't want to use the default folder, you can either type a new name, or select an existing folder from the list.	
Shortcut Folder:	
IButton Utility	
Install shortcuts for current user only Make shortcuts available to all users	
< <u>B</u> ack <u>M</u> ext > <u>C</u> ancel	



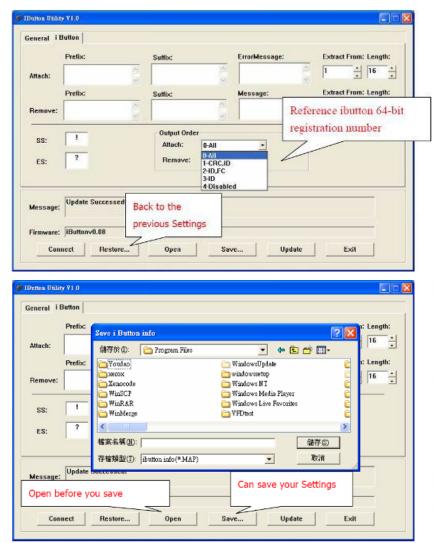


- 2. To execute "IButton_V1.0.exe" for setup communication between software and iButton module.
- The utility program will detect the connected reader. If detected, all the input text boxes will be enabled.
- If the reader has not been connected to PC yet, please connect the reader and then click Refresh to get connected.

	Prefix:		Suffix:	12		
Package:		2		< >		
	Succeed:		Failed:			
Delimiter:		~ ~		< >		
		<u></u>		M		
					 	 an
dessage:	Device Founded!				 	 -
lessage:	Device Founded!				 	

Configuration

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



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.



iButton Data Package :



- 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.

iButton data formate: SS + iButton 64- Bit Registration Number + ES

- Length : i-Button ID length request from 0~16
- Output order : 4 formats could be select at Attach /Remove i-Button ID.

iButton 64- Bit Registration Number: 8-Bit CRC + 48-Bit ID + 8-Bit FC

DEMO SETUP&OUTPUT

Endered Former Langelte
🗙 Message: Extract From: Length:
er>
tput Order ttach: 0-All v
emove: 0-All
Click update button

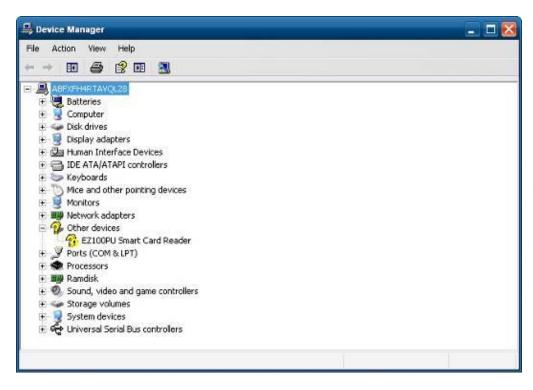
OUTPUT DATA :

a!ab0000003bdfa01?

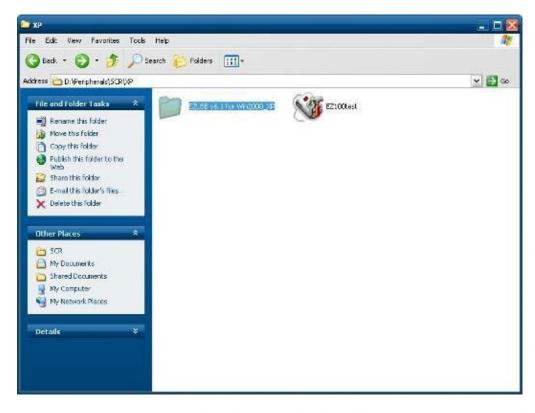
b!ab0000003bdfa01?

6-6 Installation and Testing of Smart Card Reader

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



2. Install the SCR driver.





3. Run Setup.exe.

Setup	. 🗆 🗵
File Edit: View Favorites Tools Help	M
🔇 Each: + 🔘 - 🏂 🔎 Search 😢 Folders 🛄 +	
Address 🛅 D:Veenpherals/SCR/X94E2U59 vol.1 for Win2CC0_XP(Setup	v 🔁 👁
File and Folder Tasks 🔺 🦳 CRIMERS 🔛 🚰 UTILITY	
🧭 Make a new folder	
🔮 Publish this folder to the 🛛 🔬 mynewdev.dl 🖉 Setup	
Share the folder	
Uther Places 😞	
E2USD v6.1 for Win200_WP	
My Documents	
Comments	
😨 My Computer	
Mr Network Places	
Details ¥	

4. Click "Yes".





5. Restart systems.



6. Check SCR reader in Device Manager.





7. Run the testing program – EZ100test.

😂 XP	. 🗆 🔀
File Edit View Favorites Tools Help	100 A
🌀 Back + 🔘 - 🏂 🔎 Search 😜 Folders 🔢 +	
Address 🛅 D:\Perpherals(SCRUP	¥ 🛃 👁
File and Folder Tasks * Image: Share this folder * E2USE v6.1 for Wn2000_XP E2USE v6.1 for Wn2000_XP E2USE v6.2 for Wn2000_XP E2USE v6.3 for Wn2000_XP E2US	
Other Places * SOR SOR My Documents Shared Documents My Computer My Retwork Places	
Details ×	

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

Series Reader Testing Program v1.3		- = 2	
EZ PC/SC Series	Reader Testing Program v	1.3	
🏷 List Reader	<u>S</u> tart Testing		
CASTLES EZ100PU 0	Case 1 - Card Insert/Remove Testing	0%	
	Case 2 - Card Reset Testing	0%	
	Case 3 - Card Read/Write Testing	0%	
Application	Initialized Successfully		

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

Minsert/Remove Card		- 🗆 🔀
Please REMOVI	card and see if the light is G	IEEN
	Stop	
Insert/Remove Card		_ 🗆 🔀
Please INSER	r card and see if the light is R	ED
	Stop	

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

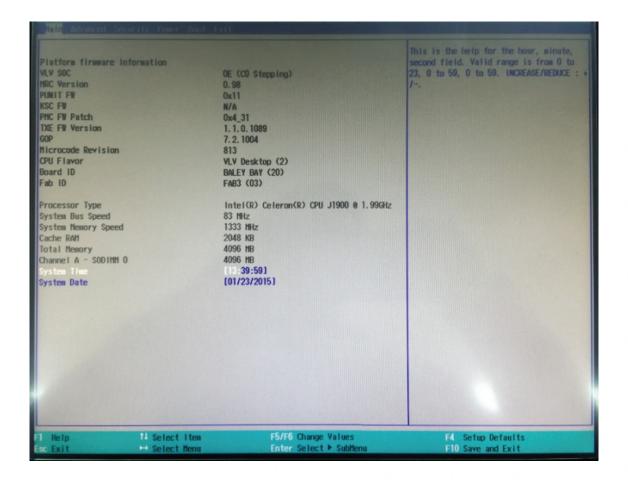
🐺 EZ PC/SC Series Reader Testing Program v1.3	🛛			
EZ PC/SC Series	Reader Testing Program v1.3			
🚫 <u>L</u> ist Reader	Start Testing			
CASTLES EZ100PU 0	✓ Case 1 - Card Insert/Remove Testing 100 % ✓ Case 2 - Card Reset Testing 100 %			
OK	Case 3 - Card Read/Write Testing			
Reader Testing Successfully				

7 BIOS/UTILITY SETUP

7 BIOS/Utility setup BIOS/Utility setup

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

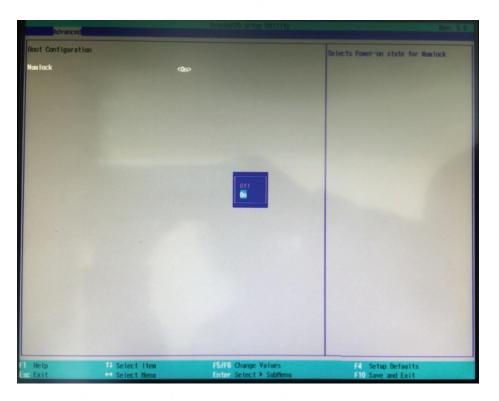
7-1 Advanced

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

Legacy OpROM Support Launch PXE OpROM	[Disabled]	Enable or D. for Legacy (
 ACPI Settings S5 RTC Wake Settings CPU Configuration SATA Configuration Intel IGD SWSCI OpRegion USB Configuration IT8783F Super IO Configuration IT8783F H/W Monitor 		
		++: Select S fl: Select I Enter: Select +/-: Change F1: General F2: Previous F3: Optimize F4: Save & E ESC: Exit
Version 2.11.12	10. Copyright (C) 2011 Ame	rican Megatrends, In

7-1-1 Boot Configuration

Use the Boot Configuration menu to select power-on state for Numlock





7-1-2 Audio Configuration

 Odvaced
 Control Detact pitting

 Audio Configuration
 Control Detaction of the Azalia device.

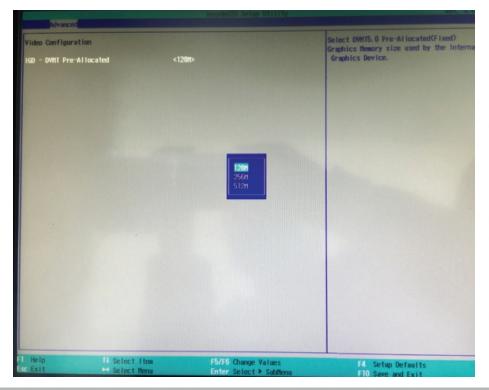
 Disabled
 - Audio alli be unconditionally disabled

 Enabled
 - Audio alli be unconditionally disabl

Use the Audio Configuration menu to read Audio configuration information and configure the Audio settings

7-1-3 Video Configuration

Use the Video Configuration menu to read Video configuration information and configure the Video settings



7-1-4 SATA Configuration

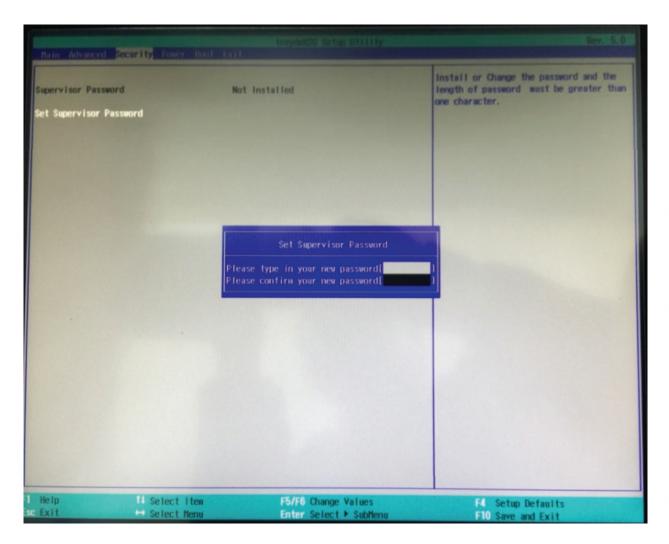
Use the SATA Configuration menu to read SATA configuration information and configure the SATA settings

<enabled> Installed] Installed]</enabled>	DISABLED: Disable ENABLED: Enables	es SATA Controller. SATA Controller.
	EMABLED: ENADIES	SATA CONTROLLER.
ect iten F5/F6 Chang ect Henu Enter Selec	je Values F4 Setup :t ▶ SubMenu F10 Save	p Defaults



7-2 Security

Use the Security menu to install or change the password



7-3 Power

Use the Power menu to install or change the password

Name Advanced Security Pow	Insyde#20 Setu er Doat-Exct	
Restore AC Power Loss Vake on LAN Enable	<power off=""> ≪Enabled></power>	t state to go to when power is after a power failure (G3
COM1 Voltage COM2 Voltage COM3 Voltage	<pre>@isabled> @isabled> @isabled> @isabled></pre>	
LVDS Firmware Update Power LED COM4 Cash Drawer	<disabled> <enabled> <12V></enabled></disabled>	
COM6 Cash Drawer	<124>	
Fl Help 11 Sele Esc Exit + Sele		Setup Defaults Save and Exit

AC Loss Auto Restart

Enable or disable system power on automatically after AC power restored

Wake on LAN

Enable or disable system wake by onboard LAN chip

Power LED

Enable or disable Power LED light

COM Voltage

This item allows you to select off, 5V or 12V powered COM

COM4/6 Cash Drawer

This item allows you to select 12V or 24V cash drawer port voltage output

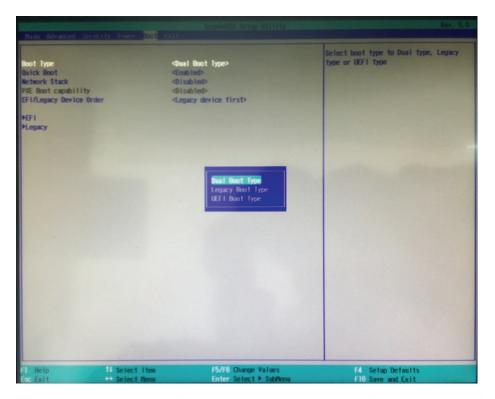
LVDS Firmware update

This item allows you to enable or disable LVDS Firmware update



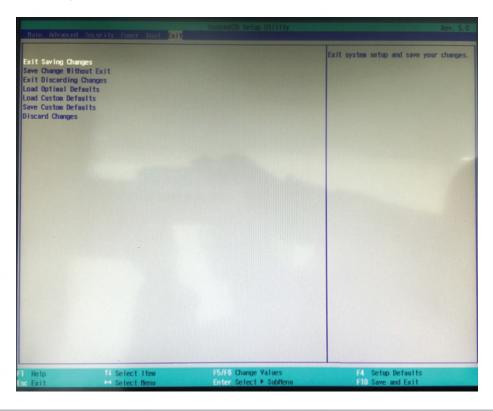
7-4 Boot

Use the Boot menu to select type to Dual type, Legacy type or UEFI type.



7-5 Save & Exit

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





8 LCD SURFACE CLEANING

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.

