

Integrated Security Solutions



5588U-U Desktop Reader

Designed by KeyKing in Israel

The key to your peace of mind ...



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Chapter 1 Summary

1.1 Foreword

• USB port has taking place of COM serial port in most PC.

• It always requires SDK or communication protocol during the secondary development.

• This product owns high penetration rate of the market, the similar products of the market can not totally match our cards. It's hard to choose a data format.

1.2 Features

• Easy to be used, need to install no driver, USB plug and play.

• Cursor output, no need for integrated development. Almost fit any circumstance.

- Good compatible, support windows, LINUX, etc operating system.
- Directly get power from USB port.

1.3 Application Fields

- Access control: Card enroll
- Attendance check: Card enroll
- Library service: Card enroll
- Any other system which require card enroll



Chapter 2 Model Desciption

2.1 Model



Specification:

- USB port Desktop Reader
- Proximity Reader
- Desktop Reader

Communication:

- USB port
- Directly send to windows cursor place

Card type:

This model series can work under the following communications: RS485, TCP/IP. Customers can choose each communication based on your requirement. Here is how to operate:

- E: EM, ID card, Proximity card, EM4100, etc compatible chips; 125KHz
- H: HID card, 1326,1386
- U: (A) Mifare: IC card, S50 chip; (B) CPU card: KK1208M1, 13.56MHz

Installation:

D: DesktopDesk type: Can be used on the tableFeature: Easy to be installed, flexible to be used



2.2 Packing List

Madalnama	Madal		Packing List	
	Model	product	Name	quantity
Deaktop Reader	5588U-U		Deaktop Reader	1
			Standard USB Cable	1

2.3 Connection Graph





Chapter 3 Specication

3.1 Surface



3.2 Hardware configuration

Model		5588E-U	5588H-U	5588U-U	
	Supported card	EM4100 series	1326, 1386	Mifare Series, S50, KK1208	
	Working frequency	125KHz	125KHz	13.56Mhz	
	Reading protocol	Manchester code	HID protocol	IS014443-A	
	Read speed	<0. 2S			
	Sensor area	<30mm			
	Communication distance	1M			
Pont	Communication port		USB		
FOL	Expand port	N/A			
Environment	Working temperature	-30° C to 65° C (-22° F to 150° F)			
Environment	Humidness	595%, no condensation state		nsation state	
Flootwigity	Power		DC5V, USB po	wer share	
Liectricity	Power consumption		0.1	V	
Appoaranco	Measurement	2	289mm L x 182mm	n W x 92mm H	
Appearance	Weight		1150	g	



Chapter 4 Format and Standard

4.1 Format Specification

"H" means Hex.

"D" means Decimal.

NO	Farmat	Wiegend	Description	Inst	tance
NO.	rormat	wieganu	Description	HEX	Decimal
1	8H10D	WG34	To switch 8 bytes hex to 10 bytes decimal	3B4AF56E	0994768238
2	6H8D	WG26	To switch 6 bytes hex to 8 bytes decimal	4AF56E	04912494
3	8H5D,5D	WG34	To switch both high and low byte of 8 bytes hen to 5 bytes decimal, separated by TAB	3B4AF56E	15178 62380
4	6H3D,5D	WG26	To switch 6 bytes hex high byte to 3 bytes decimal, and low bute to 5 bytes decimal, separated by TAB	3B4AF56E	74 62380
5	8H	WG34	4 bytes, hex output	3B4AF56E	
6	6H	WG26	3 bytes, hex output	4AF56E	

4.2 F1 DIP Switch Configuration

DIP Switch	State	Function Description
1 תוכו	OFF	Disbale Enter
DIF I	ON	Enter at the end of number
י תוח	OFF	Format selector
DIP 2	ON	Format selector
ר חוס 2	OFF	Format selector
DIP 3	ON	Format selector
	OFF	Format selector
DIP 4	ON	Format selector





- DP1: Enter at the end of number(Auto Enter Selection)
- DP2: Format Selection.
- DP3: Format Selection.
- DP4: Format Selection.

DIP Switch defaul setting:

Switch	State	Description
DIP 1	OFF	Disable Enter
DIP 2	OFF	8H5D,5D, Site Code + Card Number
DIP 3	ON	8H5D,5D
DIP 4	OFF	8H5D,5D

Dip Switches Setting:

Outrout Format	Standard	Position/		
Output Format	Standard	DIP 2	DIP 3	DIP 4
Decimal, 4 bytes	8H10D	OFF	OFF	OFF
Decimal, 3 bytes	6H8D	ON	OFF	OFF
W34, 4 bytes	8H5D,5D	OFF	ON	OFF
W26, 3 bytes	6H3D,5D	ON	ON	OFF
HEX, 4 bytes	8H	OFF	OFF	ON
HEX, 3 bytes	6Н	ON	OFF	ON
N/A	N/A	OFF	ON	ON
N/A	N/A	ON	ON	ON



Chapter 5 5588U-U Operations

5.1 Configuration in Sphinx

Steps:

- Connect 5588U-U.
- Run Sphinx.
- Go to "Hardware-Communication Configuration-Desktop Reader", choose the format you want.
- Setup DIP Switch as below instructions.
- Go to Personnel Information to give user cards.
- Done.

5.2 Wiegand Format

Wiegond	Standard	Example			DIP Switch Sta	ate
Description	Example		DIP2	DIP3	DIP4	
W34,4Bytes	8H5D,5D	07206	15418	OFF	ON	OFF
W26,3Bytes	6H3D,5D	038	15418	ON	ON	OFF

Switch your DIP according to the wiegand format that you are using, it can be set as wiegand 34 or wiegand 26. The default setup for wiegand is wiegand 34, if you are going to use this format, then you do not have to do the following steps:

Steps:

- Take out the PADs and the screws.
- Put the DIP switches as above.

5.2.1 Sphinx setup for Desktop Reader in wiegand format

Start sphinx, click "Setup" and choose "Communication Configuration", as shown:



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Figure 5-2-1

When the "communication configuration" box appears, we select "Desktop Reader & Card number format" bar, as shown:

Reader Setup	Reader for Enable / Disable Cards	
0.004	Disable Door fWill disable card when flash card	in this door)
	None	•
COM3	Enable Door Will enable card when flash card in	n this door)
Reader Type 5588X-UH	None	-
Card Number Length Wiegand-34 Output of System reader should match this value		
Send card number to Windows cursor place	Wiegand Site Code/Offset Bits	
Card Number Format	Total Bits:	32 📥
Wiegand 🔹 136, 46655	Site Code Bits:	16
	Card Offset Bits	16
Receiving the message from second-generation ID card reader (me The file read ID Card information	ssage number WM_USER + 600)	
D:\Program Files\keyking\Sphinx INT 4.3\IDCard.ini		

Figure 5-2-2

In this case, We also provide two selections in "Card Number Length", wiegand 26 and wiegand 34. The default setup is wiegand 34, you can change this setup if you want. But remember to turn on/off the DIP switch to the right state.

5.2.2 Sphinx card dispense procedure

Start sphinx, click "Setup" on the menu and choose "Cards-personnel List". As shown:



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Figure 5-2-3

In the "Personnel List" interface, we click "Add a Personnel", then we'll see the "Personal information" box, as shown:

<u>F</u> ile <u>V</u> iew	Basic Information	Card Access Level	Fingerprint F	ingerprint Reader	Face Info	
1	Personal Informa	ation		🔽 Get ID info	rmation from 2# IC) Card Reader
Add a Personnel Edit Personnel	ID		7 Code			
Group List 🔍	First Name*	Amanda	Last Name			
	ID Number		Gender		-	244
Personal Settings	Department	Head Office			•	3/14
	Group	Group Name	Position			
Add a Personnel	Joining Date				•	
🖹 Edit Personnel	Last Day	10.0			- 6	i) > 🗙
🧕 Delete Personnel	Address				Floor No.	
🧏 Recharge/Withdrawals	TEL			E-Mail		
Subsidy	Birthday			Marital Status		•
🔮 Batch Subsidies	Birth Place		*]	Nationality		÷
	Diploma		•	Major		-
Deactivate/Activate	College		*]	Remark		
Cate Value						

Figure 5-2-4

After finishing the necessary information of "First Name, ID, Department" etc. we should select the "Card"bar .



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Read Card Number Reader From System Reader rking available (ParkWatch)
Number Retrieve Card Number Retrieve Card Number Reader rking available (ParkWatch)
Read Card Number Retrieve Card Number Reader From System Reader arking available (ParkWatch)
Read Card Number Reader Reader From System Reader arking available (ParkWatch)
Number Retrieve Card Number Reader From System Reader arking available (ParkWatch)
arking available (ParkWatch)
mp Card Valid Time
om:
•• :: 💌
piration:
•• 11 💌
rrent Area
irrent Area:
side 💽 🛄
lance for Canteen
Limited Times
lance
0

Figure 5-2-5

Tick the "Use Access Card" "Retrieve Card Number From Desktop Read" and "Retrieve Card Number From System Reader". Then delete the number which is in the blank of "Card Sector". Focus your mouse cursor in the blank.

Now place your card on the Desktop Read then you will get your "Card Sector" and "Card Offset" number as shown:

lasic Information Card	Access Level Fin	gerprint Fingerprint Read	ler Face Info	
V Use Access Card Card Info				
Site Code	204 🚔	Card Offset	13396 🚔	
ID Card Custom ID:	0	From Reader [▼ Re	ad Card
🔲 Expiry Date	2017-12-09	✓ Retrieve From De	Card Number 🛛 Retrieve C sktop Reader 🗹 From Syste	ard Number em Reader
🔲 Deactivate	30 🚔	Days not used	Parking available (ParkWa	itch)
Access Properties			Temp Card Valid Time	
🕅 Handicap Card	Opens the Doo	or for a longer time	From:	
Manager Card	No Anti-Passb	No Anti-Passback Limitation; Open/Sc		-
Boss Card	Can open any	Door anytime	Expiration:	
Temp Card				
Valid for TC3XY Series	Only		Current Area	
PIN ID		PIN	Current Area:	
0000	Automatically	0000	Inside	•
Valid for DPU1000NT/I	OPU3000NT Only		Balance for Canteen	
Card Group	None	•	Limited Times	
📰 Bind a Master Card		Select	Balance	
Private PIN	× 0	# 4-8 digits	0	

Figure 5-2-6



5.3 Decimal Format

Desimal	Standard	Example		DIP Switch Sta	ate
Decimai	Description	Example	DIP2	DIP3	DIP4
Decimal, 4bytes, W34	8H10D	0472267834	OFF	OFF	OFF
Decimal, 3bytes, W26	6H8D	02505786	ON	OFF	OFF

Steps:

- Take out the PADs and the screws.
- Put the DIP switches as above.

5.3.1 Sphinx setup for Desktop Reader in Decimal format

Start sphinx, click "Setup" and choose "Communication Configuration", as shown:



Figure 5-3-1

When the "communication configuration" box appears, we select "Desktop Reader & Card number format" bar, as shown:



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ver Communication Clock Adjustment Desktop Reader & Cald Null	ber Format DVR Fingerprint Face Reco	gnition Times Canteen Send E
Reader Setup	Reader for Enable / Disable Cards	
O COM	Disable Door (Will disable card when flas	h card in this door)
COM Port	None	▼
СОМЗ -	Enable Door (Will enable card when flas	n card in this door)
Reader Type WG232	None	•
Card Number Length Wegand 34 U Dutput of System reader should match this Wegand 26 Value Wegand 34 to Windows cursor place		
Card Number Format	Wiegand Site Code/Offset Bits	
Card Number Format	Total Bits:	32 🌧
Decimal 🔹 0008959551	Site Code Bits:	16 🚔
	Card Offset Bits:	16 🚔
Receiving the message from second-generation ID card reader (mes	sage number WM_USER + 600)	
D:\Program Files\keyking\Sphinx INT 4.3\IDCard.ini		



In this case, We also provide two selections in "Card Number Length", wiegand 26 and wiegand 34. The default setup is wiegand 34, you can change this setup if you want. But remember to turn on/off the DIP switch to the right state.

5.3.2 Sphinx card dispense procedure

Start sphinx, click "Setup" on the menu and choose "Cards-personnel List". As shown:



Figure 5-3-3



In the "Personnel List" interface, we click "Add a Personnel", then we'll see the "Personal information" box, as shown:

KK Personnel List	Personal Informatio	n	1.1.1	×
Eile ⊻iew	Basic Information	Card Access Level Fingerprint F	Fingerprint Reader F	ace Info
Add a Personnel Edit Personnel	Personal Information	n 17 Code Amanda Last Name	e Get ID infor	nation from 2# ID Laid Header
Personal Settings 🛞	Department Group	Head Office Group Name Position	· L.	3×4
Add a Personnel Edit Personnel Delete Personnel	Joining Date Last Day Address	•••		Floor No.
Recharge/Withdrawals	TEL Birthday		E-Mail Marital Status	
Eatch Subsidies	Birth Place Diploma		Nationality Major Remark	• •
Deactivate/Activate Locate Value Batch Edit			i reliidik.	



After finishing the necessary information of "First Name, ID, Department" etc. we should select the "Card"bar.

Basic Information Card	Access Level Fir	ngerprint Fingerprint Read	ler Face Info
📃 Use Access Card			
Card Info	ř.		
Card No.:			
ID Card Custom ID:	0 🚔	From Reader	✓ Read Card
🔲 Expiry Date	2017-01-11	- Retrieve	Card Number Retrieve Card Number
Deschuste	20	Doue not used	Deduine evenietie (Deduin(evel.)
Deactivate	30	Days not used	Paiking available (Paikwatch)
Access Properties			Temp Card Valid Time
📰 Handicap Card	Opens the Do	or for a longer time	From:
🔲 Manager Card	No Anti-Passt	back Limitation; Open/Sc	- + + 10 💌
Boss Card	Can open any	Door anytime	Expiration:
📰 Temp Card			•• ::
Valid for TC3XY Series	Only		Current Area
PIN ID		PIN	Current Area:
0000	Automatically	0000	Inside 💽 🛄
Valid for DPU1000NT/	DPU3000NT Only		Balance for Canteen
Card Group	Card Group None		Limited Times
📰 Bind a Master Card	1	Select	Balance
Private PIN	× O	# 4-8 digits	

Figure 5-3-5

Tick the "Use Access Card" "Retrieve Card Number From Desktop Read" and "Retrieve Card Number From System Reader". Focus your mouse cursor in the blank as shown:



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asic Information Card	Access Level F	ingerprint	Fingerprint Read	ler Face Info		
Use Access Card						
Card Info	1					
Card No.:						
ID Card Custom ID:	0	From	Reader	•	Read Card	
🔲 Expiry Date	2017-01-11		 Retrieve From Desite 	Card Number 🔲 Retriev sktop Reader 🕅 From S	ve Card Number ystem Reader	
🔲 Deactivate	30 🄙	Daysr	not used	Parking available (Park	Watch)	
Access Properties				Temp Card Valid Time		
🔲 Handicap Card	landicap Card Opens the Door for a longer time			From:		
📃 Manager Card	No Anti-Passback Limitation; Open/Sc				•	
🔲 Boss Card	Can open an	y Door an	ytime	Expiration:		
📃 Temp Card					•	
Valid for TC3XY Series	Only			Current Area		
PIN ID		PIN		Current Area:		
0000	Automatically	000	0	Inside	•	
Valid for DPU1000NT/	DPU3000NT Only			Balance for Canteen		
Card Group	None		•	Limited Times		
📰 Bind a Master Card			Select	Balance		
Privata PIN	× O	#	4-8 digits			

Figure 5-3-6

Now place your card on the Desktop Read then you will get your card number as shown:

lasic Information Card	Access Level F	ingerprint Fingerprint Read	der Face Info
🔽 Use Access Card			
Card Info			
Card No.:	2647288021		
ID Card Custom ID:	0	From Reader	▼ Read Card
📃 Expiry Date	2017-01-11	 Hetrieve From Der 	sktop Beader Erom Sustem Beader
Described a	20	Dave net used	
Deactivate	JU 🕞	Days not used	Parking available (Parkwatch)
Access Properties			Temp Card Valid Time
I Handicap Card	Opens the D	oor for a longer time	From:
Manager Card	No Anti-Pas:	sback Limitation; Open/Sc	•• ::
Boss Card	Can open an	v Door anvtime	Expiration:
Temp Card			•• ::
Valid for TC3XY Series 0)nly		Current Area
PIN ID		PIN	Current Area:
0000	Automatically	0000	Inside 💽 🛄
Valid for DPU1000NT/D	PU3000NT Only		Balance for Canteen
Card Group	None	•	Limited Times
🔲 Bind a Master Card		Select	Balance
E Dinu a Master Calu	-		
Private PIN	* 0	# 4-8 digits	

Figure 5-3-7



5.4 HEX Format

LIEV	Standard	Evenula		DIP Switch St	ate
ПЕА	Description	Example	DIP2	DIP3	DIP4
HEX 4bytes W34	8H	1C263C3A	OFF	OFF	ON
HEX 3bytes W26	6Н	263C3A	ON	OFF	ON

Steps:

- Take out the PADs and the screws.
- Put the DIP switches as above.

5.4.1 Sphinx setup for Desktop Reader in HEX format

Start sphinx, click "Setup" and choose "Communication Configuration", as shown:



Figure 5-4-1

When the "communication configuration" box appears, we select "Desktop Reader & Card number format" bar, as shown:



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	Tiber Format DVR Fingerprint Face Recognition	I Times Canteen Send E
eader Setup	Reader for Enable / Disable Cards	
© COM 💿 USB	Disable Door (Will disable card when flash card	l in this door)
COM Port	None	•
COM3 -	Enable Door (Will enable card when flash card	in this door)
Reader Type WG232	None	•
Card Number Length Wrepards23 Utput of System reader should match this Wrepards24 Vilegand-34 to Windows cursor place		
Card Number Format	Wiegand Site Code/Offset Bits	
Card Number Format	Total Bits:	32 🌲
HEX • 88863F	Site Code Bits:	16 🔿
	Card Offset Bits:	16 🚔
Receiving the message from second-generation ID card reader (mes	ssage number WM_USER + 600)	
D:\Program Files\\keyking\Sphinx INT 4.3\IDCard ini		

Figure 5-4-2

In this case, We also provide two selections in "Card Number Length", wiegand 26 and wiegand 34. The default setup is wiegand 34, you can change this setup if you want. But remember to turn on/off the DIP switch to the right state.

5.3.2 Sphinx card dispense procedure

Start sphinx, click "Setup" on the menu and choose "Cards-personnel List". As shown:





In the "Personnel List" interface, we click "Add a Personnel", then we'll see the



"Personal information" box, as shown:

<u>F</u> ile <u>V</u> iew	Basic Information C	ard Access Level Fi	ngerprint Fi	ingerprint Reader	Face Info	
1 🗈	Personal Information	on		🔽 Get ID info	rmation from 21	‡ ID Card Reader
Add a Personnel Edit Personnel	ID	17	Code			
Group List 🕑	First Name*	Amanda	Last Name			
	ID Number		Gender		•	2~4
Personal Settings (*)	Department	Head Office			•	3/14
	Group	Group Name	 Position 		•	
Add a Personnel	Joining Date				•	
🖹 Edit Personnel	Last Day	0.5			•	🔁 🔊 💽
🥑 Delete Personnel	Address				Floor No.	
Recharge/Withdrawals	TEL			E-Mail		
Subsidy	Birthday		•	Marital Status		÷
😤 Batch Subsidies	Birth Place		•	Nationality		+
Lost/Found	Diploma		•	Major		•
Deactivate/Activate	College		•	Remark		
Locate Value						
Batch Edit						



After finishing the necessary information of "First Name, ID, Department" etc. we should select the "Card"bar.

Basic Information Card	Access Level Fin	gerprint Fingerprint R	eader Face Info		
🔲 Use Access Card					
Card Info	2				
Card No.:					
ID Card Custom ID:	0	From Reader	▼ Read Card		
Expiry Date	2017-01-11	- Retrie	eve Card Number 🔤 Retrieve Card Number		
		From	Desktop Reader — From System Reader		
Deactivate	30 🚔	Days not used	Parking available (ParkWatch)		
Access Properties			Temp Card Valid Time		
🔲 Handicap Card	Opens the Doo	or for a longer time	From:		
Manager Card	No Anti-Passb	ack Limitation; Open/S	Sc 🖂 💌		
Boss Card	Can open any	Door anytime	Expiration:		
🔲 Temp Card			•• ::		
Valid for TC3XY Series	: Only		Current Area		
PIN ID		PIN	Current Area:		
0000	0000 Automatically 0		Inside 💽		
Valid for DPU1000NT	/DPU3000NT Only		Balance for Canteen		
Card Group	None	•	Limited Times		
📰 Bind a Master Card	3	Select	Balance		
		The second s			

Figure 5-4-5

Tick the "Use Access Card" "Retrieve Card Number From Desktop Read" and "Retrieve Card Number From System Reader". Focus your mouse cursor in the blank as shown:



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asic Information Card	Access Level F	ingerprint	Fingerprint Read	ler Face Info		
Use Access Card						
Card Info	1					
Card No.:						
ID Card Custom ID:	0	From	Reader	•	Read Card	
🔲 Expiry Date	2017-01-11		 Retrieve From Desite 	Card Number 🔲 Retriev sktop Reader 🕅 From S	ve Card Number ystem Reader	
🔲 Deactivate	30 🄙	Daysr	not used	Parking available (Park	Watch)	
Access Properties				Temp Card Valid Time		
🔲 Handicap Card	landicap Card Opens the Door for a longer time			From:		
📃 Manager Card	No Anti-Passback Limitation; Open/Sc				•	
🔲 Boss Card	Can open an	y Door an	ytime	Expiration:		
📃 Temp Card					•	
Valid for TC3XY Series	Only			Current Area		
PIN ID		PIN		Current Area:		
0000	Automatically	000	0	Inside	•	
Valid for DPU1000NT/	DPU3000NT Only			Balance for Canteen		
Card Group	None		•	Limited Times		
📰 Bind a Master Card			Select	Balance		
Privata PIN	× O	#	4-8 digits			

Figure 5-4-6

Now place your card on the Desktop Read then you will get your card number as shown:

asic Information Card	Access Level Fingerprint Fingerprint Rea	der Face Info
🛽 Use Access Card		
Card Info		
Card No.:	9D7B2717	
ID Card Custom ID:	0 From Reader	▼ Read Card
Expiry Date	2017-01-11 The Retrieve	Card Number Retrieve Card Number
🔲 Deactivate	30 💌 Days not used [Parking available (ParkWatch)
Access Properties		Temp Card Valid Time
🔲 Handicap Card	Opens the Door for a longer time	From:
Manager Card	No Anti-Passback Limitation; Open/Sc	
Boss Card	Can open any Door anytime	Expiration:
Temp Card		··· ::
Valid for TC3XY Series (Dnly	Current Area
PIN ID	PIN	Current Area:
0000	Automatically 0000	Inside 🗾 🛄
Valid for DPU1000NT/D	PU3000NT Only	Balance for Canteen
Card Group	None 👻	Limited Times
📰 Bind a Master Card	Select	Balance
Private PIN	* 0 # 4-8 digits	

Figure 5-4-7



5.5 Other Application

Steps:

- 1. Run Word or Excel application.
- 2. Connect 5588U U desktop reader.
- 3. Put the curser on the position you would like to put card number.
- 4. Read card, and will get card number.
- 5. If DIP1=ON, enter will be executed at the end of card number.



Phenomenon	Reason	Solution
		Try to figure out the printed formatof
Cursor output	Selected the wrong format	the card, then switch the DIPs to the
do not match		proper state
card number		
Not reading card	Using the wrong model	Choose the right model
	Card model incompatible	Change your card

Chapter 6 maintenance