SRK-K531: OEM 14443-A READER STARTER KIT

RS232 OPERATIONS

The OEM 14443-A Reader Starter Kit can operate with a RS232 terminal such as HyperTerminal. **RS232 Parameters** Transmission Speed: 38400, Parity: none, Data: 8, Stop: 1

AVAILABLES COMMANDS

Info	Retrieve version and RC chipset ID					
poll	. Poll for 14443-A tags (ESC to quit)					
tag	Select Mifare or 14443-A tag					
read	Read Mifare 1k or 4k tag					
	Mifare or 14443-A halt command					
reset						
	Display a list of some availables					
	commands					
rf on						
	De-activate the RF field					
	Open access to the RC chipset					
	Close access to the RC chipset					
rc reset						
—	Configure the chipset with startup values					
	Open a T=CL 14443-A session					
tel eton	Send the T=CL 14443-A session					
tol_stop	Send the T=CL 14443-A wideselect with Send a T=CL 14443-A PPS request					
tci_pps	Seliu a 1-CL 14443-A PPS lequest					
kove	Load default keys to RC RAM					
	Load default keys to RC RAW					
) keys command immidiatly followed by key					
keys[A D]II-(key_uata	type 'A' or 'B' and index of this key from					
	'0' to 'F'					
	0 10 1 1					
	(key_data) can be 12 bytes in hexadecimal, or 6 letters.					
	riexadecimal, or o letters.					
rogo	Display RC register values					
regs	Display RC register values					
lod-PCIVI	Control leds outputs, where R, G and					
ieu-Ko[1]	optionnaly Y are to be replaced a number					
	between 0 and 3 :					
	0 : Off 1 : On 2 : Fast blink					
	3 : Slow blink (for MOD-K531_OEM)					
	3: Default action (for MOD-K531_CSB4)					

115200	Switch the module to high speed			
	communication.			
38400	. Switch the module to normal speed			
	communication.			
const=(configuration_structure_data)				

Where the structure data is : Serial configuration BYTE

PBK PNS	RFU	SBO	SOD	SEO	SNC	SHB			
MSB						LSB			
PBK		. Blink Li	EDs befo	ore any	action fi	om host if			
		set to 1		•					
PNS		.WARN	NG!C	JRREN ⁻	T ACTIO	ON CAN			
		NOT BE INTERRUPTED IF SET TO 1.							
		ALWAYS SET THIS BIT TO ZERO.							
RFU	Reserved for future use.								
SBO		Use binary protocol in bus mode only if							
		set to 1	, .			•			
SOD		Don't use OSI protocol if set to 1							
		No serial echo if set to 1							
SNC		Serial speed can't be changed by							
		softwar	e if set t	o 1		-			
SHB		. Startup	in high:	speed if	set to 1				
		·	Ū	•					

Address to be used in multi-point protocol BYTE

Action to be entered on startup BYTE

RFU BYTE

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

SEQUENCE EXAMPLES

Read a tag......1. Present a 14443-A or MIFARE® tag in the antenna area.

2 . keys

3 . tag → You should obtain specific data of your tag (Serial number, ATQ, SAK)

4 **read** → You should obtain the content of the differents sectors of the tag.

Store a key To store the key 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF as key B in position 2 :

keysB2=FFFFFFFFFF

Configure LEDS......To switch on the green LED switch off the

yellow LED and make the red LED

blinking fast : led=210

Polling at Startup......To ensure a continuous polling of any tag

at startup enter the following command

then rebooting the module:

const=00004F00

reset

Recover default configuration

Hit "Enter" key until ">" appears

const=00000000

reset

SOFTWARE OPERATIONS

The starter kit need the "SpringProx.dll" to operate with the samples applications. This DLL and demonstration softwares are availables on our web site at :

http://www.pro-active.fr/download/csb

Availables samples applications are :

MIFARE Tool.....Allow you to select read / write your contactless cards.

Electronic Purse Tool... Demonstration of counter on a MIFARE® 1K contactless card.

SPECIFIC DEVELOPMENTS

A specific firmware for the OEM 14443-A Reader Module is available, giving instant MIFARE® Tag ID reading on the RS232 line.

For more details ask Pro-Active for the Application Note : PMXZ010.

REGISTRATION

To obtain 3 months technical support and the source code

package, please send us an e-mail to this electronic address: srk@pro-active.fr

Please, send us your :.... company name,

name and address,

the serial number of your SRK-K531.

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DATASHEET SRK-K531 : OEM 14443-A READER STARTER KIT

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