# SCIEL PROG IR

# Active RFID Tag Encoder and ERW software

Infrared contactless encoder for all ELA INNOVATION Active Tags

USB 1.1 433.92 MHz

4 KHz

mm

Infrared protocol Aluminum : 125x80x30

-25°C to +60°C

- Coupled with our ERW Configuration software for PC
- Tag settings and activation
- USB auto-powered device

	Tag ID To Hexa 07 Wiegand 26b 7 Data/Clock 502	Program AC 3F 44095	Read
Open Serial Port     CheckSum (decimal)     Tag ID Emission Cycle     Tag Activation     Reed Switch Alarm     Low Battery Alarm	0 1 sec V V	<u></u>	
Tamper Switch Alarm Radio Frame Format Checksum Length Number of Emissions	24 bits H L6 bits 1	▼ ▼	
Label Print	Program	1 0000 Synchror rial Port COM1 O	
User Memory To Program	Program	Read	Rea

ELA Read Write v4.4.1 (Be

## 1 DESCRIPTION

**Operating Temperature** 

Specifications Connection

Writing method

Frequency Writing speed

Housing

The SCIEL PROG IR (reference SCP02) manages the Reading and the Writing process of all our Active RFID tags through the Infra Red technology.

The device has a 1.1 USB port.

The configuration software ERW (Ela Read Write) manages the SCIEL PROG IR. It enables to:

- Program a tag on an individual basis
- Program tags per batch
- Load all the programming actions
- Program the tag's ID
- Program the tag's settings (emission cycle, alarm management, ...)
- Activate and deactivate directly the tags
- Program and read the tag's internal user memory (100 octets sized information not transmitted)

## 2 SOFTWARE INSTALLATION

Before connecting the SCIEL PROG IR device to your computer, it is required to install the USB driver on your computer. The driver is compatible with OS Windows XP, Vista, 7 and 8. The USB driver is available on our DOWNLOAD area on our website: <u>www.elainnovation.com</u>

Then you have to download the ERW configuration freeware, also available on our DOWNLOAD listed above.

Please follow step by step the instructions given during the installation process.





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Product sheet – Ref SCP02







## **3 SCIEL PROG IR - OPERATING MODE**

## 3.1 ERW Configuration & Commands:

We advise to check that the COM PORT where the SCIEL PROG IR device is connected is correctly defined in the ERW software. Please click on the menu « Configuration » and « Serial Port » the select the COM PORT used by the USB cable.

## 3.2 RFID active tag's placement on SCIEL PROG IR

Serial Port Configuration ×
Communication Port
OK
Cancel

Before making any operation on the active tag itself, this one has to be placed directly on the SCIEL PROG IR's glass window, without any particular direction.



**ITEMS\_IR Placement** 



**THINLINE Placement** 



ITEMS\_TD, ITEMS\_E, ITEMS\_DG, ITEMS\_AD Placement

Please note the grey top cover has to be removed



SLIM\_ID Placement



**COIN Placement** 



The

## 3.3 ERW MAIN PAGE DESCRIPTION:





#### **3.4 Basic Operations:**

3 steps have to be followed to configure the tags;

- READ step: operation which reads all the tag's settings
- SYNCHRONIZE step: operation to copy and paste the settings to the left column, used to change the settings
- PROGRAM step: operation which consists of loading all the left column's values into the tag.



#### 3.5 CONFIGURATION MENU

#### **Reader Checksum :**

In the case that you need to change the CRC value of the SCIEL PROG IR, in order to be compliant with the CRC of your tag(s), you can select this option and load your CRC value.

By default, the value is 00.



#### Serial programmation:

This feature can be used to program a batch of RFID active tags, with n tags, with a first ID and an incremental decimal path.

0	ELA Read Write v4.4.6 (Beta) 🛛 – 🗆 🗙			
File	Configuration	Tools Options ?		
<u>∎</u> *	Serial Port			
	Reader Ch	ecksum		
12	Serial Prog	rammation   Enabled		
Inr	Read Seria	Number Parameters		
	Write	> <u>10</u>		
Open Serial Port				
CheckSum (decimal)		Sequential Programmation Configuration		
Tag I	D Emission Cycle			
Tag Activation		First tag ID of the sequence (decimal)		
Reed	Leed Switch Alarm Total number of tags to be programmed 1			
Low I	Battery Alarm			
		Programmation Step (increment) 1		
		OK Cancel		

#### **Read Serial Number:**

You can activate or deactivate this option. By activating this option, at each Reading operation, the ERW software will read the tag's settings **AND** its internal serial number.





## This value will be displayed in the ERW main page at the following location:

CheckSum (decimal)	0	0	
Tag ID Emission Cycle	900 ms 💌	1,1 sec	
Tag Activation			
Reed Switch Alarm			
Low Battery Alarm			
Tamper Switch Alarm			
Radio Frame Format	24 bits HD 🔹	24 bits HD	
Checksum Length	8 bits 💌	16 bits	
Number of Emissions	1 💌	1	
Radio Frame Duration	HD 👻	HD	
Serial Number	081013 0000	210313 1587	
	Program 🗲 Synchror	nize 🗲 Read	

#### **TOOLS MENU** 3.6

In this menu, you could find the same features as the ones displayed at the top of the ERW homepage. Actually, you can select:

- Read Tag •
- Program Tag ٠
- Enable Tag (activate) ٠
- Disable Tag (deactivate) •
- Tag Software version ٠
- Enable Radio Carrier •
- **Read Serial Number** •



#### 3.7 **OPTIONS MENU**

Only 1 of the 3 displayed options in this menu is enabled:

- **Temperature Offset** •
- Temperature Data (disabled option)
- Alarm Periodicity (disabled option) •







## **Temperature Offset**

The first option has to be used to calibrate our wireless RFID Temperature sensors.

By clicking on Temperature Offset, you can define a slope value and an offset value for the sensor, compared to your master sensor.

The Reset, Read and Write buttons have to be used to read and modify the tag's temperature settings.

File Configuration		tions ?
₽ <u>₩</u> ₽₩ <b>2</b> <sup>2</sup>	Ver? (	Temperature Offset
Tag I	-Tag I	Temperature Data
ELA		Alarm Periodicity
Innevation	Tiexa	Temperature Offset
		Configuration Slope 1.0000000000 - Offset 0.00000000 - - Calibrate Reset Write Read



In the case that you do not know the slope and offset values, you can click on Calibrate button. A text box will appear, enabling you to load 2 slots of master and actual values. The offset and slope will be then automatically defined.

## Temperature Data

This option is currently disabled.

## **Alarm Periodicity**

This option is currently disabled.