

**NOUT** RFID TRANSPONDER TECHNOLOGY

## **EK20-IDTRCM USER MANUAL**

**EK20-IDTRCM** (here named READER) is a mobile device for **Traceability** applications.

Features:

- Operates with one-two-three frequencies (LF-HF-UHF) as your choice.
- Operates with the most popular TAGs:
- LF:Unique, Q5, T5577, Hitag, Titan HF:Mifare, Icode, Srix UHF: EPC-Gen2, 18000-6C
- Read one or two different TAG in any read cycle.
- Operates with 4 keys only. More easy to use and less error chances.
- Records all the operation LOGs.
- Can create an User Database using our IDONE-R software.
- Program a Text into writeable TAGs.
- Connectable via USB.
- Connectable wireless by RADIO UHF (Standard) or BLUETOOTH.
- Connectable to INTERNET CLOUD by our Microserver.
- Configurable for different Traceability applications.
- LIPO battery rechargeable by USB 5VDC.
- Complete of the IDONE-R program freely downloadable from: www.zetanetweb.com/download/zetanet.htm
- Compatible with our mobile readers IDGIANO, IDJ3 and fixed IDTRCF.

"IDTRCM powerful, easy, compact"





#### INDEX

- 1.0 HOW TO READ A TAG
- 2.0 HOW TO OPERATE WITH THE READER
- 2.1 WORKING AREA
- 2.2 SETTINGS AREA
- 3.0 IDONE-R FIRST INSTALL
- 4.0 HOW TO CREATE A NEW PROJECT
- 4.1 CONFIGURATION SETTINGS
- 4.2 HOW TO OPEN AN EXISTING PROJECT
- 5.0 LOG MANAGEMENT
- 6.0 HOW TO CREATE AN USER DATABASE
- 7.0 SET CURRENT DATE ON A READER
- 8.0 SET A DEVICE NUMBER ON A READER
- 9.0 PROGRAMMING A TEXT ON TAG
- 10.0 HOW TO REDUCE IDONE-R
- 11.0 BATTERY
- 12.0 AVAILABLE MODELS
- 13.0 TECHNICAL SPEC
- 14.0 HOW TO UPGRADE THE FIRMWARE AND THE LANGUAGE ON THE READER

**1.0 HOW TO READ A TAG** The READER exec two scan cycles for an easy positioning of the TAG.

Front reading (LF-HF-UHF)

Bottom reading (UHF)





The tipical reading distance depends from the TAG type and size.

UNIQUE	Card	Tip 30 mm
HITAG	Card	Tip 30 mm
MIFARE ISO144443A	Card	Tip 20 mm
ICODE ISO 15693	Card	Tip 40 mm
SRIX ISO14443B	Card	Tip 30 mm
UHF EPC GEN2	Card	
VERTICAL POLARIZATION	Bottom	Tip160 mm
VERTICAL POLARIZATION	Front	Tip. 40 mm

#### 2.0 HOW TO OPERATE WITH IDTRCM READER

The READER supports two operative area:

- WORKING AREA here are performed all the reading activities.
   SETTINGS AREA here are set some useful parameters to avoid the use of PC.

To pass from the WORKING AREA and the SETTINGS AREA and viceversa press ESC for about 3 seconds.

2.1 WORKING AREA At power up appear for 2 seconds: -The reader model. (Ex.TRCM) -The firmware version (Es.2.3UR). -The reader number (Es.N:00) -The current date.		TRCM 2.3UR N:00 12/10/14 13:56
Next will appear the Configurations menu (if any). Use $\bigcap I$ to scroll the configurations. To start press OK.		MAINTENANCE DATA COLLECT
DIRECTION		JOB START Leggi Tag
CODE READ If the READ MODE:CODE is enabled. Place the Tag on the front of the READER and press OK. Appears the TAG type and the read CODE. Press ESC to come back to Read Tag. TAG UHE		Read Tag ICODE Code:00325F12DA
For this particular Tag: You can display the CODE in ASCII or HEX depending on the setting Will be displayed the CODE EPC (12 or 16 bytes).	I in SETTINGS AREA.	
	Ex.EPC12bytes HEX	E28022140815EE03 456C127F
	Ex.EPC12bytes ASCII	GPRCC1254FIR
TEXT READ	n into the Tag.	RAMA SA Av. Spring 126
-TAG UHF For this particular Tag you can display the data depending on the se	tting in SETTINGS AREA.	
Will be displayed the EPC (12 or 16 bytes) and/or the USER AREA.	Ex.EPC12bytes HEX	E28022140815ee03 456C127F
	Ex.USER 32bytes ASCII	Mod. AS32567 Water Pump
Use ${}_{\mathrm{CV}}$ to scroll the next pages of USER AREA.		
INFO LIST If the INFO LIST is enabled, after the read operation press OK. Appear the INFO LIST items (vedi#4.1).		Repair Substitution
Use $\widehat{U}^{\mathbb{Q}}$ to scroll the items (max 15). Press OK on the chosen item. Appear "Are you sure". Press OK to confirm. Appear "Operation OK".		Substitution Are you sure?
Otherwise press ESC to come back to Read Tag.		Substitution Operation OK

#### 2.2 SETTINGS AREA

Use  $\bigcirc \bigcirc$  to scroll the items.

Pressing OK the cursor move on the selection and **memorize its value.** Pressing ESC the cursor move to the begin of the current item and enables the use of arrows.

CONNECTION TO PC	
This item permits the RADIO connection to the PC.	Connessione a PC
Pressing OK the communication is Active. If appear the R char means that a data exchange is running.	Connessione a PC Attivata $\rightarrow$ R
When all Logs has been transferred appear End Log.	Connessione a PC Fine Log→ R
UNIQUE	
Permits to set the CODE format compatible with most used readers (SOKYMAT mode). SOKY set the SOKYMAT MODE, INV set the INOUT MODE.	Unique: SOKY INV
UHF ASCII-HEX	
Permits to display the EPC CODE and the USER AREA in ASCII or HEX format.	UHF: ASCII HEX
UHF USER E+USER	
Permits to display only the USER AREA or the EPC CODE+USER AREA.	UHF: USER E+U
UHF POWER	
Permits to set 4 growing power levels on the READER ANTENNA .	UHFpower: 1 2 3 4
SID-CH	
Permit to set the RADIO System IDentifier(SID) and theRF Channel(CH).	Sid-Ch: 001 007

Use  $\textcircled{}{}^{1}$  to increment or decrement the value from 0 to 9.

Press OK to pass to the next digit.

Pressing OK on the last digit the set values are **memorized** into the READER RADIO.

3.0 IDONE-R FIRST INSTALL

The first install is very important because creates the correct environment need by the system. So we have made a simplified procedure to start the first install. INSTALL IDONE-R ON YOUR PC Connect to the web site: www.zetanetweb.com/download/zetanet.htm Download the file "IDONE-R\_5xx\_Setup.exe". Exec the file and follow the instructions to the end of install. An icon will appear on your PC. USB COM PORT INSTALL Turn off the READER. Connect the USB cable and turn on the READER. The PC begin to install the new device. Wait for the completion of the install of the assigned COM PORT. RADIO COM PORT INSTALL Insert the RADIO PEN UHF into an USB connector on your PC. The PC begin to install the new device. Wait for the completion of the install of the assigned COM PORT. Click on the icon to launch IDONE-R. Will appear a request. Press OK.

DONE-R		A.B. COMI-CO.	
IMPOSSIBLE TO LOA	O THE MAIN DATA	BASE: A DEFAULT ONE W	TILL BE CREATED
			OK

Compile the fields as in this example and choose the Tag to be read. Press OK.

er create un nuovo uatabase i	compliare i campi qui sotto	
NOME DATABASE:	TEST	
NOME CLIENTE:	TEST	
NOME PROGETTO:	TEST	
NOME CONFIGURAZIONE:	TEST	
TIPO TAG:	UHE EPC GEN2 -	
	ОК	EXIT

Open the window "COMMUNICATION PARAMETERS". -Set "SETTINGS MODE".

- -Set the "CONFIGURATION READER".
- -Select the RADIO COM PORT.

-Start the	CONNECT	TON TO	PC on the	READER	(see#2.2)	ļ

-	Press	"CONNECTION".	
---	-------	---------------	--

PORT	COM4 (USB Serial Port	)	•
		19200	•
O LOG MODI	E N° OF READERS	RELOAD COM	PORT LIST
© SETTINGS D ◀ ► C	MODE CONFIGURATION READER	CONNECT	NON
💟 ENABLE CO	MMUNICATION AT STARTUP	DISCON	NECT

Open the "CONFIGURATIONS" window.

-Press "SEND TO READER"

-In the window "CONFIGURATION SEND" mark the Configuration to send (TEST).

-Press "SEND" and wait for the end transfer (BLUE BAR).

PROJECT: TEST		
NAME:	SAVE	
CONFIGURATION	CANCEL	
1231	NEW	
	DELETE	
	MODIFY NAME	
	MOVE UP	
	MOVE DOWN	
	CONFIGURATIONS	
	SEND TO READER	
	EXIT	

	L	SELECT NONE
ORDER	CONFIGURATI	
MOVE UP	MOVE DOWN	RESET

-On the READER come back to the WORKING AREA.

-Read one or more TAG.

-Start the CONNECTION TO PC on the READER (see#2.2).

-Press "LOG DOWNLOAD".

A window show the transfer advance (LOG TRANSFERRED).

DOWNLOADED LOG	: 0
LOG DOWNLOAD	EXIT

Now the first install is complete.

You can create new projects following the procedure in #4.0.

IMUNICATION PARAMETE MODE".
JNICATION AT START UP"
▼ [15200] ▼
RELOAD COM PORT LIST
CONNECTION
DISCONNECT
ENIT

## ARCHIVE OF CONFIGURATIONS

Open the window "PROGRAM". -Choose the CURRENT LANGUAGE. IDONE-R permits to create an ARCHIVE of your PROJECTS.

	anase Lies winipw_nassinem innn
CREA NUOVO DATABASE	APRI FILE
CARTELLA SALVATAGGIO LOG	
C:\Users\giancarlo\Documents\IDONE-	R\Log Files
	SELEZIONA CARTELLA
IMPOSTAZIONE FILE DI LOG	🗇 PER ANNO 🛛 🧕 PER MESE
<b>1</b> 5 🗮	
ITALIANO INGLESE F	MANCESE

### **CREATE YOUR PROJECT**

-Press "CREATE NEW DATABASE"

-Insert the "DATABASE NAME".

We do suggest to detail this name so that during a next search will be easily reknown as the CLIENT as th PROJECT. -Insert the CLIENT NAME and the PROJECT NAME.

<sup>p</sup> er creare un nuovo database (	compilare i campi qui sotto
IOME DATABASE:	TEST
NOME CLIENTE:	TEST
IOME PROGETTO:	TEST
NOME CONFIGURAZIONE:	TEST
TIPO TAG:	UHF EPC GEN2

#### LOG FOLDER SETTINGS

Appear the DEFAULT of the LOG FILE folder. (Users\MYNAME\Documents\IDONE-R\Log Files). -If you want to assign a new root press "CHOOSE FOLDER" and insert the new root. Select in "LOG FILE SETTINGSE" the log saving mode, any MONTH or any YEAR. The logs will be **automatically** saved in folder so defined:

DATABASE NAME\_YEAR\_MONTH

Es. AMRA\_WASTE\_2015\_3

Any LOG will be inserted in the folder in function of the recorded date, also for month deferred transfer.

C:\Users\CAD\Documents\IDONE-R	\Log Files	
	SELEZIONA CARTELLA.	
IMPOSTAZIONE FILE DI LOG:	PER ANNO	PER MESE

**ATTENTION** In case of "CREATE NEW DATABASE", as here descripted, the correct LOG FILE will be created after the first received log.

#### **CUSTOMER SETTINGS**

Select "CUSTOMER" in the "CUSTOMERS & PROJECT S" windows. -Insert the Customer data and press "SAVE".

SOCIETA':	AMRA	
INDIRIZZO:	Via Perino 14	
CAP:	21111	
CITTA':	Vergola	
Provincia:	Milano	
NAZIONE:		
TELEFONO:		
FAX:		
EMAIL:		
CONTATTO:		
NOTE:		
	SALVA	ESCI

#### **PROJECT SETTINGS**

Select "PROJECT" in the "CUSTOMERS & PROJECTS" windows.

LIENTE:	AMRA	
ODICE PROGETTO	7892	Δ
OME:	Cassonetti	
ORMATO LOG:	🖱 CODICE	CODICE+TESTO
SALVA		ESCI

#### LOG FORMAT CODE

CODEInto the LOG string will be recorded only the CODE "UID" (5 bytes).CODE +TEXTInto the LOG string will be recorded as the CODE "UID" as the first 3

Into the LOG string will be recorded as the CODE "UID" as the first 32 characters of the TEXT read from the written TAGS to be displayed in the field "TAG DATA" in the LOG MANAGEMENT window. Only in case of an UHF TAG the full EPC (12 or 16 byte) will be displayed in "TAG DATA".

The **PROJECT CODE** is sent to all the READERS configured with this Project. Grants that only the log comprise to this project will be recorded. **We suggest don't modify this CODE.** 

#### **CREATE YOUR CONFIGURATIONS**

For any PROJECT you can create from 1 to 12 CONFIGURATIONS. These configuration will be displayed in the READER initial MENU.

Select "CONFIGURATIONS".

We do suggest to create a list of the previewed configurations.

-Press "NEW".

-Insert a name in the "NAME:" window and press "SAVE".

- -The name appears in the list.
- -Continue just to the last previewd configuration.

-To delete, modify or move a name in the list, select the name and exec the appropriate commands. -Press "SAVE".

PROGETTO: Cassonetti rifi NOME:	uti Zona Indust
P. CONFIGURAZIONE	ANNULLA
D Unique I Mifare	NUOVA
	ELIMINA
	MODIFICA NOME
	SPOSTA SU
	SPOSTA GIU
	CONFIGURAZIONE
	INVIA A LETTORE
	Ferr

#### 4.1 CONFIGURATION SETTINGS

Here are descipted the **admitted** parameters by the READER. In the window "CONFIGURATION MANAGEMENT" press "CONFIGURATIONS".

VUNIQUE - Q5 - TK555 HITAG 1/S ICODE - SLI MIFARE 1K	7 - EM4102	TITAN SRIX UHF EPCGEN2
MODO DI LETTURA:	CODICE	© TESTO
DIREZIONE:	OISABILITATO	🖱 ABILITATO
LISTA CAUSALI:	OISABILITATO	🖱 ABILITATO
TESTI DA DB:	OISABILITATO	🗇 ABILITATO
RISERVATO 1:	DISABILITATO	🗇 ABILITATO
RISERVATO 2:	OISABILITATO	🔿 ABILITATO
RISERVATO 3:	OISABILITATO	🖱 ABILITATO
RISERVATO 4:	OISABILITATO	🖱 ABILITATO
RISERVATO 5:	DISABILITATO	🔿 ABILITATO
RISERVATO 6:	OISABILITATO	🖱 ABILITATO
RISERVATO 7:	DISABILITATO	🔿 ABILITATO

#### TAG CHOICE

Select the TAG type to be read. MAX TWO SELECTIONS. READ MODE

CODE	
TEXT	

On the READER will be displayed the CODE UID read from the TAG in HEX format ( 5 Bytes).
 On the READER will be displayed the TEXT read from the TAG.
 Only the Tags HITAG, ICODE, MIFARE, SRIX e EPC-GEN2 consents this mode.
 The Tag UNIQUE always displays the CODE UID.

#### DIRECTION

Is possible to associate a DIRECTION to any tag reading. To change the DIRECTION use the arrows. The set DIRECTION will be recorded in the LOG.

The displayed text is that inserted into the item "DIRECTION" in "TABLES CONFIGURATION".

Ex: START JOB-END JOB, DELIVERY-RETIRED .....

In the window select NEXT. Insert two texts into the DIRECTION window.

The first position is related to the arrow up and the second to the arrow down of the READER.

#### **INFO LIST**

At the end of a tag reading is possible to visualize a list of INFO (max 15) to identify defects or anomalies to be associated to the LOG string.

The INFO will be displayed in the field "TAG DATA" in the LOG MANAGEMENT window in the last 16 characters of the field.

CAUSALI	DIREZIONE	
	OK	
	DISMESSO	
<u>.</u>		

#### SEND CONFIGURATIONS TO THE READER

-Press "SEND TO READER". Appears the window "CONFIGURATION SEND".

-Check the CONFIGURATIONS you want send to the READER.

-Press "SEND" and wait for the end transfer (BLUE BAR).

Now the READER is ready to operate.

SELEZIONA T	UTTI DISSEI	LEZIONA TUTTI	SELEZIONA TUTTI	DISSELEZIONA TUTTI
	CONFIGURAZI			
1 2	Mifare UHF			
SPOSTA SU	SPOSTA GIU	RESET		

# **4.2 OPEN AN EXISTING PROJECT** In "PROGRAM" press "OPEN FILE".

Select a project in the Database Files archive.

PROGRAMMA	×
DATABASE CONFIGURAZIONI:	
C:\ProgramData\ZETANET\IDONE-F	3\Database Files\AMRA_Cassonetti.mdb
CREA NUOVO DATABASE	APRI FILE
CARTELLA SALVATAGGIO LOG	
C:\Users\CAD\Documents\IDONE-R	\Log Files
	SELEZIONA CARTELLA
IMPOSTAZIONE EILE DULIOG:	
	CTEITAINO CTEITAESE
ITALIANO INGLESE	FRANCESE
LINGUA CORRENTE: ITALIANO	
	ESCI.
	ESG

RI FILE						?
Cerca jn:	🔁 Database	Files	~	0 🦻	P .	<b></b> +
Documenti recenti Desktop	AMRA_Cas BICA_Cald CREM_Puli DIMA_Mag ELSA_Pcb.	sonetti.mdb aie.mdb azzino.mdb mdb				
Documenti						
Risorse del computer	Nome file:	AMRA_Cassonetti.mdb			3	✓ Apri
	<u>⊺</u> ipo file:	File di database (".mdb)				V Annulla
		🔲 Apri in sola lettura				

IDONE –R operate with the parameter of the project selected. -Exec the "SEND CONFIGURATIONS TO THE READER". Now also the READER is aligned with the project selected.

#### 5.0 LOG MANAGEMENT

## The Log transfer can be set in two mode:

## 1) SETTINGS MODE

RAMETRIDIC	COMUNICAZIONE	
PORTA:	COM13 (USB Serial Port)	×
MODALITA	<b>Y' LOG</b> Y" DI LETTORI	RICARICA LISTA PORTE COM
	N'IMPOSTAZIONI	CONNESSIONE
0_ <b>∢</b> ▶ ι	ETTORE DI CONFIGURAZIONE	DISCONNESSIONE
-		ECO

#### 1)SETTINGS MODE

This mode is normally used for the CONFIGURATION activities and for the LOG TRANSFER on a single READER at time.

### By RADIO:

- -Select the READER device number to connect.
- -Press "LOG DOWNLOAD" and wait for the end of log tranfer.

#### By USB:

- -Connect the READER to USB.
- -Press "LOG DOWNLOAD" and wait for the end of log tranfer.

DOWNLOADED LOG	.: 0
	2
	FXIT

To visualize the received LOG select "LOG MANAGEMENT". The current LOG FILE is displayed in red.

TUTTE	<b>M</b>	9/10/2010	10/02/2015			<u> </u>		RECORD IN LIST
	DATA	OBABIO	SOCIETA	LETTORE	DIBEZIONE	TIPO TAG		
INVENTARIO INVENTARIO INVENTARIO JANUT.CALDAIE JANUT.CALDAIE JANUT.CALDAIE MIUT.CALDAIE RIFIUTI	10/02/2015 10/02/2015 10/02/2015 10/02/2015 10/02/2015 10/02/2015 10/02/2015 10/02/2015	10.11.40 10.12.27 10.12.41 10.12.58 10.13.12 10.13.22 10.13.25 10.14.15	INOUT RFID INOUT RFID INOUT RFID INOUT RFID INOUT RFID INOUT RFID INOUT RFID		OK OK DISMESSO INIZIO FINE ·	ICODE ICODE ICODE ICODE ICODE ICODE UHF EPC GEN2	0009CA1956 0009CA1957 0009CA1958 0009CA1935 0009CA1935 0009CA1935 0009CA193C 0009CA193C	OSCILLOS TESTER F SALDATO ACNE SRL ACNE SRL RAMA SRL RAMA SRL
Documents and Se	ettings'Admin\Doct	umenti\IDONE	R\Log Files\ATTI	VITA_LOG.mdb	2	SELEZIONE CAMPI	SALVA LOG PE (formato xls r	R EXCEL ESCI

CONFIGURATION	CONFIGURATION associated to the received LOG.
DATE- TIME	DAY-MONTH-YEAR-HOUR-MINUTES-SECONDS of the READ TAG operation
COMPANY	CUSTOMER associated
READER	DEVICE NUMBER
DIRECTION	If "DIRECTION" enabled, appear the event direction.
TAG TYPE	The read TAG type.
UID	The Unique identifier of a TAG (5 bytes HEX).
TAG DATA	A 32 characters field for Text, Info and EPC(UHF).

#### FILTERS

Filters the Logs in function of:

- Configuration
- Date from / to
- Reader number

#### SAVE LOG IN CSV OR XLS FORMAT

- Press <code>`SAVE LOG CSV FORMAT'</code> to archive the Logs for use with <code>EXCEL</code>.

#### OPEN LOG FILE

- Press "OPEN LOG FILE" to visualize previous recorded Logs.

FIELDS SELECTION

- Press "FIELDS SELECTION" to choose the items to be visualized in the Log area.

VA	ESCI

CHAR SEPARATOR serve to export the logs in .csv format.

#### 2)LOG MODE

#### This communication mode use exclusively the RADIO UHF.

IDONE-R via the RADIO PEN UHF start a continuous scanning of the READERS.

Don't serve any command by the operator, the LOGs will be transferred from the READERS present in the RF field. -Mark "LOG MODE"

-Set the N' of readers to be interrogated (from 1 to 99).

-Start the connection.

A mimic panel show the current state of any READER:

GREYDISCONNECTED OR NOT IN RF FIELD.GREENCONNECTED.YELLOWLog transfer running.The N' of received LOGs is also shown.



#### 6.0 HOW TO CREATE AN USER DATABASE

In the window "LIST" press "USERS" to open the window "USERS MANAGEMENT".

- -Choose the CONFIGURATION on which to be create the USER DATABASE.
- -Press DB FIELDS NAME" to open he window "USER FIELDS TEXT".

-Insert a name in the fields will be used by the DATABASE. Ex: "COMPANY", "NAME", "CELL".

-Press "SAVE" and next "EXIT".

E GESTIONE UTENTI	×	E TESTI CAMPI UT	TENTE	and the second se	×
	SALVA ANNULLA NUOVO ELIMINA	PROGETTO: CONFIGURAZIO TESTO 0 TESTO 1 TESTO 2	A DITTA NOME CELLULARE	TESTO 10 TESTO 11 TESTO 12	
	MODIFICA NOMI CAMPI ESPORTA (FILE CSV) ESC	TESTO 3 TESTO 4 TESTO 5 TESTO 6 TESTO 7 TESTO 8 TESTO 9		TESTO 13           TESTO 14           TESTO 15           TESTO 16           TESTO 17           TESTO 18           TESTO 19	
				SALVA	ESCI

-Press "NEW".

- -Insert the data into the fields.
- -Connect the READER to read the "UID CODE" to be associated.
- -Press "READ UID", the read CODE appear in the window.

-Press "SAVE".

The User Data are viewn in the riepilogative window.

Repeat the operation for all the USERS to be inserted into the DATABASE.

ROGETTO: CONFIGURAZIONI		
CODICE UID:	00-09-CA-2F-8C LEGGI UID ICODE ISO 15693 • LETTURA DATI OK	SALVA
IOME	PISOLI FRANCO	ANNULLA
ELLULARE	33333333333	NUOVO
		ELIMINA
		MODIFICA
		NOMI CAMPI
		ESPORTA (FILE CSV)
		ESCI

CONFIGURAZIONI	a ICODE			
CODICE UID:	00-00-00	100 [LEGGI UID]	ICODE ISO 15693 ELETTURA DATI OK	SALVA
DITTA				ANNULLA
CELLULARE				NUOVO
				ELIMINA
				MODIFICA
				NOMI CAMPI
				ESPORTA (FILE CS)
				ESCI
UID	CAMPO 1	CAMPO 2	1	
0009CA2F1C 0009CA2F8C 0009CA1958 0009CA2F2A	ABCD AMRA BBCC DDEE	ROSSI LUIGI PISOLI FRANCO NERI GIUSEPPE CIMOLI FABIO		

Open the window "LOG MANAGEMENT".

-Press "FIELD SELECTION".

-Mark the new fields generated by the "CUSTOMER DATABASE" you want to visualize in the LOG area. -Press "SAVE".

A SELEZIONE CAMPI	Gestione Log	×
I CONFIGURAZIONE IZ DITTA IZ DATA IZ NOME IZ ORANO IZ CELLULARE II SOCIETA	FILTRI         DATA DA:         DATA DA:         N. DISPOSITIVO           ICODE           29/07/2015	RECORD IN LISTA: 1/20
OPERATORE VILTORE V	CONFIGURA         DATA         ORARIO         LETTORE         TIPO TAG         UID         DITTA         NOME         CELLULARE           ICODE         66/08/2015         1103:55         0         ICODE         0003CA2F2A         DDEE         CIMIL         NOME         CELLULARE           ICODE         66/08/2015         1103:25         0         ICODE         0003CA2F2A         DDEE         CIMIL FIABID         80808898080           ICODE         66/08/2015         1109:23         0         ICODE         0003CA2F2C         ABCD         REDSILUIGI         444444444444           ICODE         05/08/2015         1109:33         0         ICODE         0003CA2F2C         ABCD         ROSSILUIGI         444444444444           ICODE         05/08/2015         1109:33         0         ICODE         0003CA2F2C         AMFA         PISSILUIGI         444444444444           ICODE         05/08/2015         109:33         0         ICODE         0003CA2F2C         AMFA         PISSILUIGI         444444444444444444444444444444444444	
V CAMPO DATI  CAPATTERE SEPARATORE SALVA ESCI		
	C/Users\giancarlo\Documents\DDNE-R\Log Files\a_Log_2015_08.mdb	
	LOG SCARICATI: 3	
	AGGIORNA APRI FILE DI LOG SALVA LOG (FORMATO CSV 0/XLS) SELEZIONE CAMPI	ESCI

Using the function "USERS DATABASE" you can use Projects set in LOG FORMAT: CODE. Because this format don't use the field "TAG DATA" the Logs recorded arrive to 8000.

#### SET CURRENT DATE ON A READER 7.0 Set the READER number and press "SEND".

LETTORE	0
DATA & ORA	05-08-2015 15:03:58
INVIA	ESCI

#### 8.0 SET DEVICE NUMBER INTO A READER

Insert the "ACTUAL ADDRESS" and the "NEW ADDRESS" to be set in the READER. Press "SEND".

INDIRIZZO ATTUALE	0 🌲
INDIRIZZO NUOVO	0
TESTO DISPOSITIVO:	
<u> </u>	

#### 9.0 PROGRAMMING A TEXT ON TAG

In the window "TAG PROGRAMMING" you can view the admitted TAG list.

- Click on the chosen TAG.
- Appear a window that **emulate** the visualization on the READER display.
- Any page( as viewn on the LCD) is composed by 2 rows of 16 character each.
- Any TAG type permits to write a defined number of pages.

To write a TEXT:

- Insert the text starting from page 1.
- Activate the connection on the READER.
- Approach the TAG to the READER.
- Press "WRITE" and wait for the replay WRITE OK .
  To read press "READ" and wait for the replay READ OK.

#### Q5/5577 5bytes writeable

00-00-00-00	0 🖨 LETTORE
	LEGGI
	ESCI

HITAGS PAGES used from PAGE5 to PAGE47 (188 char/6 pages)) HITAG1 PAGES used from PAGE16 to PAGE63(188 char/6 pages)

2	
2	LEGGI
4	
5	SCRIVI
6	
7	A PBLOCCA TAG
8	
9	<- CANCELLA TUTTO
10	
11	
12	
13	
14	
10	ESCI

#### ICODE PAGES used from PAGE1 to PAGE24 (96 char/3 pages)

1	q 🖨 LETTORE
2	
3	LEGGI
4	
5	SURIVI
°	📥 🖃 BLOCCA TAG
·	
	<- CANCELLA TUTTO
	<- CANCELLA TUTTO
	ESCI

#### SRIX PAGES used from PAGE1 to PAGE5 (80 char/5 pages)



#### MIFARE BLOCKS used from BLOCK4(SECTOR 1) to BLOCK22(SECTOR 5) (224 char/7pages)

		MIFARE PROTECTION	
		TTORE: 1	
1	d 🖨 LETTORE	CHIAVE: FF-FF-FF-FF-FF	<- CARICA DEFAUL
2			
3	LEGGI	SCHIVI CHIAVE SU IDUNE-H	SURIVI CHIAVE SUE TAG
4		IMPOSTA A DEFAULT	
5	SCRIVI	IDONE-R	
6			
7	📥 📃 BLOCCA TAG		
8			
9	<- CANCELLA TUTTO		
10			
11			
12			
12			
13			
14	FSCI		
15	ESCI		

For the MIFARE tag is visualized a window "MIFARE PROTECTION". Permit to set the SECRET KEYS for any SECTOR as on the READER using the command "WRITE KEY ON READER" as on the TAG using the command "WRITE KEY ON TAG".

The command "RESET ALL KEY DEFAULT ON READER" set the all the keys to FF-FF-FF-FF-FF.

BLOCK 1 - 2 - 3	>	SETTORE 1	
	, ,	SETTORE 2	
BLOCK 4 = 3 = 0	7	SETTORE 2	
BLOCK / - 8 - 9	→	SETTORE 3	
BLOCK 10 -11 -12	→	SETTORE 4	
BLOCK 13 -14 -15	<b>&gt;</b>	SETTORE 5	
<b>IMPORTANT: CONSEP</b>	RVE AN /	ARCHIV OF THE INSERTED	KEYS.

### UHF

1	d 🖨 LETTORE
2	LEGGI
4	
5	SCRIVI
6	🔺 🕅 BLOCCA TAG
	<- CANCELLA TUTTO
	FSC

#### **10.0 HOW TO REDUCE IDONE-R.**

Normally the end user application don't use all the functions available on IDONE-R. The user can reduce them activating only those really needed. Digit the **Reserved Code**.

Digit the **Reserved Code.** Will appear a window "CLIENT SETTINGS" where you can select the functions to be active. Any reduction is associated to the current PROJECT.

ARRA LATERALE	PAGINA LOG
PANNELLO TAG PANNELLO CONFIGURAZIONI PANNELLO DATABASE UISTA UTENTI UISTA LETTORI	SELEZIONE CAMPI SALVA LOG PER EXCEL MPOSTAZIONE DIVISIONI CAMPO DATI APRI FILE DI LOG STAMPA
PANNELLO IMPOSTAZIONI DATA & ORARIO N* DISPOSITIVO PANNELLO LOG	SELEZIONA REPORT DI STAMPA
CANCELLA LOG DA LETTORE GESTIONE LOG PANNELLO OPZIONI PROGRAMMA COMUNICAZIONE VISUALIZZA MODALITA' IMPOSTAZIONI	OPZIONI

#### Close the program IDONE-R and restart it to visualize the new one.

📓 IDONE-R - a		X
LOG 🛞		
SCARICA LOG		
GESTIONE LOG		
OPZIONI		
PROGRAMMA		
PARAMETRI DI     COMUNICAZIONE		
Compressione		
APPLICAZIONE		
INFO SU IDONE-R		
N ESCI		
СОМА	12.00 04	HE

#### 11.0 BATTERY

IDTRCM operates from a rechargeable LIPO battery (400mah). The recharge is made through the USB cable. When the battery is charging a RED LED is lighted. When is charged the RED LED is off. In case of LOW BATTERY on the display of the READER appears: The READER turn-off.

BAT	TERY	LOW	

#### 12.0 AVAILABLE MODELS EK20-IDTRCM-LH-N/R EK20-IDTRCM-U-N/R EK20-IDTRCM-LHU-N/R

Model with antenna LF+HF Model with antenna UHF Model with antenna LF+HF+UHF

#### The USB interface is always mounted in all the models.

I modelli descritti possono essere forniti anche con RADIO UHF o BLUETOOTH.

- Suffix **N** USB interface only.
- Suffix **R** RADIO UHF interface. (Standard model)
- Suffix **B** BLUETOOTH interface. (Optional)



The RADIO PEN UHF is quoted a part.

## **13.0 TECHNICAL SPEC**

TRIPLE FREQUENCY	LF 125 Khz UNIQUE/Q5/T5567			
		HITAG1/HITAGS		
		TITAN		
	HF 13.56Mhz	MIFARE-ISO14443A		
		ICODE-ISO15693		
		SRIX-ISO14443B		
	UHF 868 Mhz	EPC-GEN2		
LOG MEMORY (circular buffer)	8000 records in LOG FORMAT: CODE			
	2500 records in LOG FORMAT: CODE+TEXT (32 chars)			
LCD DISPLAY	2 rows x 16 charsi White-Blue			
ACOUSTIC WARNING	Buzzer			
DATA TRAnSMISSION 19200-8-N-1	USB2.0			
	RADIO UHF			
	BLUETOOTH (opzionale)			
OPERATING TEMPERATURE	-20'C to +60'C			
DIMENSIONS	125mm x 70mm x 23mm			
WEIGHT	170 g			

#### 14.0 HOW TO UPGRADE THE FIRMWARE AND THE LANGUAGE ON IDTRCM

To upgrade the FIRMWARE and the LANGUAGE:

- READER turn off.
- Connect the USB cable.
- Turn on the READER.
- Wait for:



that you find in the IDTRCM-CD folder. - Launch the program EK20-UPLOADER

- Set the COM PORT and the bit rate(19200).
- Press UPLOAD PROGRAM. Will appear the window RISORSE DEL PC.
- Select the file IDTRCMxxxx.BIN
- Set the address of the connected READER.
- Press START and wait the end of programming (Upload OK).
- On the READER will appear:

USB Upload BV-5 Wait.....

- At the end turn off the READER. IMPORTANT: Avoid to operate on the PC during the programming.

<u>0</u> Ek-20	upLoader			3		
C	omm Port: 1	Baud: 19200,n.8,1	•			
			,	]	pLoad Program	
					Device Address 0 -	START Abort
		EXIT			UpLoading	
		UpLoad Language	UpLoad Program	Г		
28/10/2014	13.38	Idle	To=0 Pt=4			

To upgrade the LANGUAGE repeat the same procedure pressing UPLOAD LANGUAGE and selecting the file IDTRCMxxxx.TXT.

#### **IDONE\_CLOUD**

Another solution is to collect the LOG by RADIO in real time and transmit them by INTERNET CLOUD. - LOG transmitted to the SERVICE CENTER in your Personal Area.

- Offer a full protected access by a personal Passy ord.

This operation need an Internet Access Point in y ur location and a Microserver to collect the Logs from the READERS.



INOUT RFID s.r.l Phone: +39 02.95138.139 Email: info@inoutsrl.it

Via Milano,14/H 20064-Gorgonzola (ITALY) Fax:+39 02.95.158.694 Web: www.inoutsrl.it