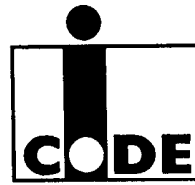


User Manual



SL EV900 I•CODE Demonstration Kit

Preliminary Version
Rev.: 2.2
Confidential

March 1999

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1. Delivery Content

Pcs.	Description
1	I•CODE Reader
1	I•CODE Antenna
1	24 V Power Supply Cable
1	PC Serial Interface Cable
10	I•CODE Labels
2	Disks with Demonstration Software
1	Description of I•CODE Demonstration Kit

Additional information concerning long range antennas and the RS232 interface protocol is available in the documents:

- Application Note I•CODE Design of Read/Write Antennas
- Data Sheet SLRM900 I•CODE Long Range Reader Module

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2. Hardware

2.1 Hardware Installation

Getting started with the I•CODE Demonstration Kit requires the following steps:

1. Connect the antenna cable to the BNC connector at the I•CODE Reader.
2. Connect the serial interface cable (with the 9-pin female connector) to the COM1 or COM2 port at your host PC and to the 9-pin connector at the I•CODE Reader.
3. Connect the 24 V power supply cable to the appropriate connector at the I•CODE Reader and to a 24 V (± 1 V)/40 W power supply.
4. Connect the 24 V power supply to the mains and switch it on.

The I•CODE Reader is now ready for operation.

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3. Software

3.1 Software Installation

The I-CODE demonstration software works with Windows 3.x and Windows 95. Insert disk 1, start the 'SETUP.EXE' program and follow the instructions.

If you want to change the COM port some times after the software installation please open the file 'ICODE.INI' (in the directory where you have installed the software) with a text editor and modify the line COM=COMX (X = 1 or 2).

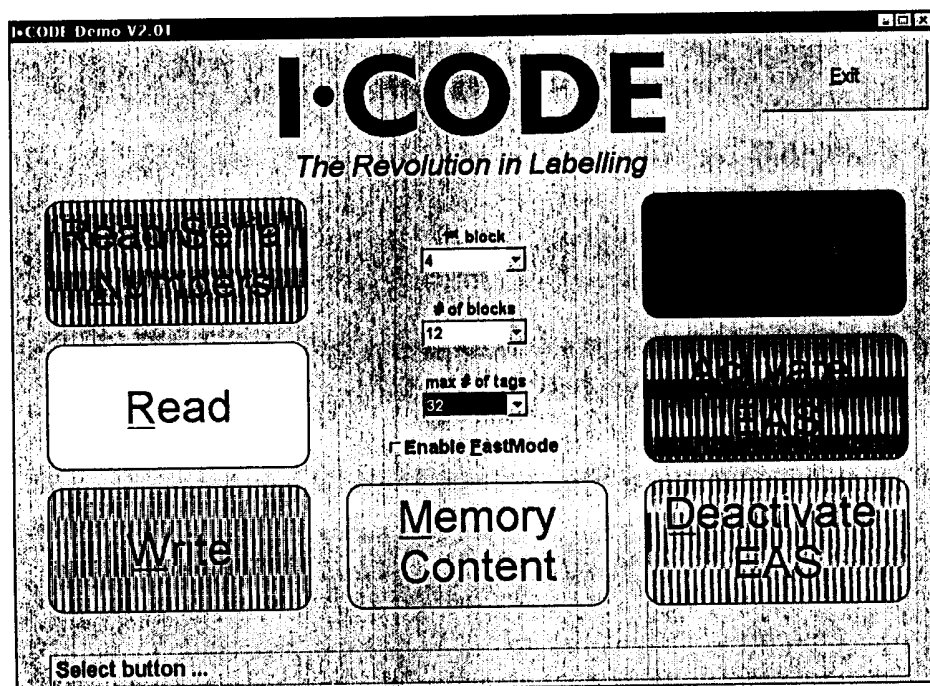
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3.2 Software Description

This demonstration software shows the basic features of the I•CODE System. To start the program double click the 'I•CODE Demo' icon.

Main Menu

In the main menu you can start the commands and change some parameters.



- 1st block: First block in the user memory with which you want to start the access.
The first block in the user memory is block 4.
- # of blocks: Number of blocks starting with the 1st block you want to access.
- max # of tags: Maximum number of tags that will be in the antenna field.
- Enable FastMode: If you click at this button the I•CODE Reader works in 'Fast Mode'.

To start a command click at the corresponding button or press the 'Alt'-key and the underlined character.

To exit a command, you have first to click at the 'Stop'-button and then at the 'Exit'-button.

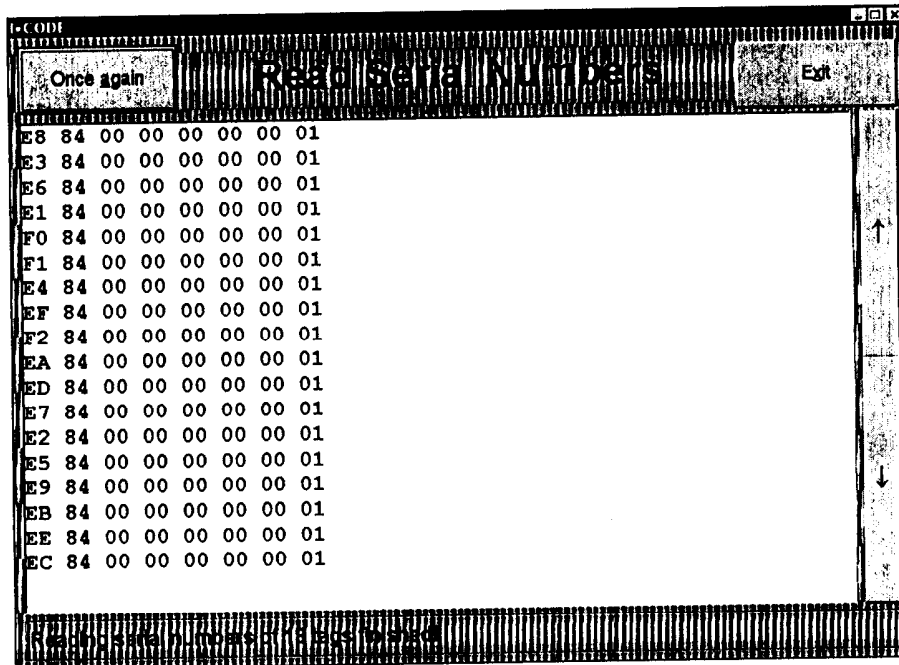
In the status line you will get information about the number of detected labels.

The two arrow buttons on the right side of the following forms can be used (after clicking the 'Stop'-button) to scroll the content of the form if there are too much labels to be displayed all at once.

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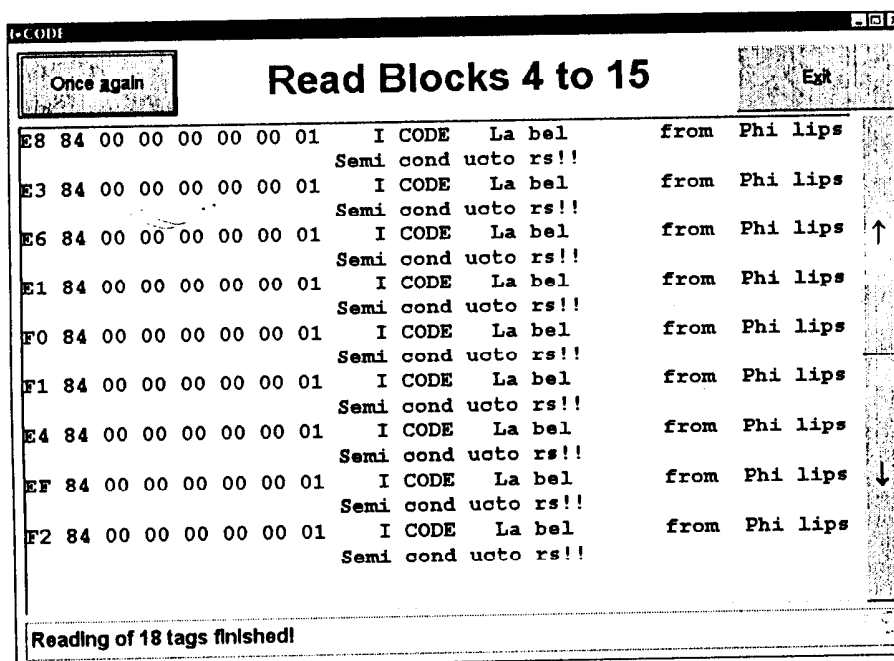
Read Serial Numbers

This command reads the unique serial numbers (2 blocks = 8 bytes, least significant byte first) of the labels in the antenna field. Each additional label which enters the field is added to the list. If you want to clear the list click on the 'Stop'-button and then the 'Once again'-button.



Read Blocks

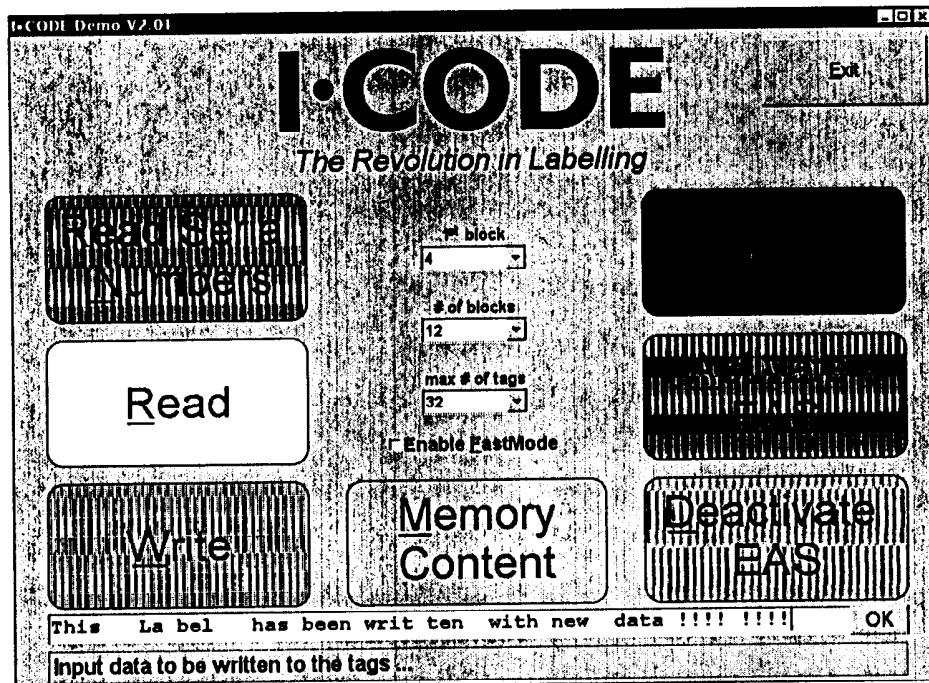
With this command you will get the unique serial numbers and the content of the user memory of all read labels. The first block and the number of blocks depend on the setup in the main menu.



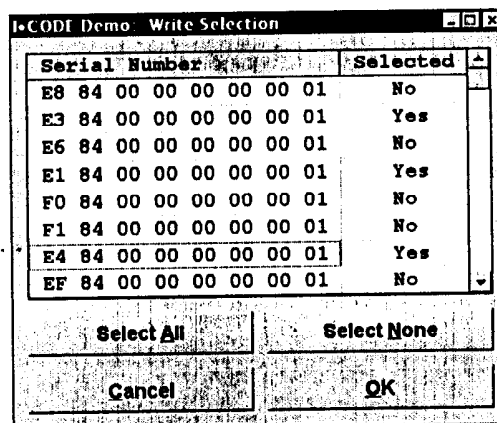
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Write Blocks

Before changing data on the labels a 'Read Serial Numbers', 'Read', 'Memory Content' or 'Read EAS' command has to be performed. Then you can input your new data in the status line. The length depends on the selected number of blocks.



By clicking on the 'OK'-button or pressing the 'Enter'-key the following selector box will appear. You can select none, some or all of previously read labels by clicking on the corresponding item. Only the labels with selected serial numbers will be written to with the new data by clicking on the 'OK'-button.



After this the following form will appear:

Write Blocks 4 to 15

Once again Exit

E8	84	00	00	00	00	00	01	I CODE	La bel	from Phi lips	
								Semi cond uto rs!!			
E3	84	00	00	00	00	00	01	This	La bel has been writ ten with		
								new data !!!! !!!!			
E6	84	00	00	00	00	00	01	I CODE	La bel	from Phi lips	↑
								Semi cond uto rs!!			
E1	84	00	00	00	00	00	01	This	La bel has been writ ten with		
								new data !!!! !!!!			
F0	84	00	00	00	00	00	01	I CODE	La bel	from Phi lips	
								Semi cond uto rs!!			
F1	84	00	00	00	00	00	01	I CODE	La bel	from Phi lips	
								Semi cond uto rs!!			
E4	84	00	00	00	00	00	01	This	La bel has been writ ten with		
								new data !!!! !!!!			
EF	84	00	00	00	00	00	01	I CODE	La bel	from Phi lips	↓
								Semi cond uto rs!!			
F2	84	00	00	00	00	00	01	I CODE	La bel	from Phi lips	
								Semi cond uto rs!!			

Writing of 3 tags finished!

Read EAS

This command shows the unique serial numbers and the EAS status of all detected labels.

Read EAS

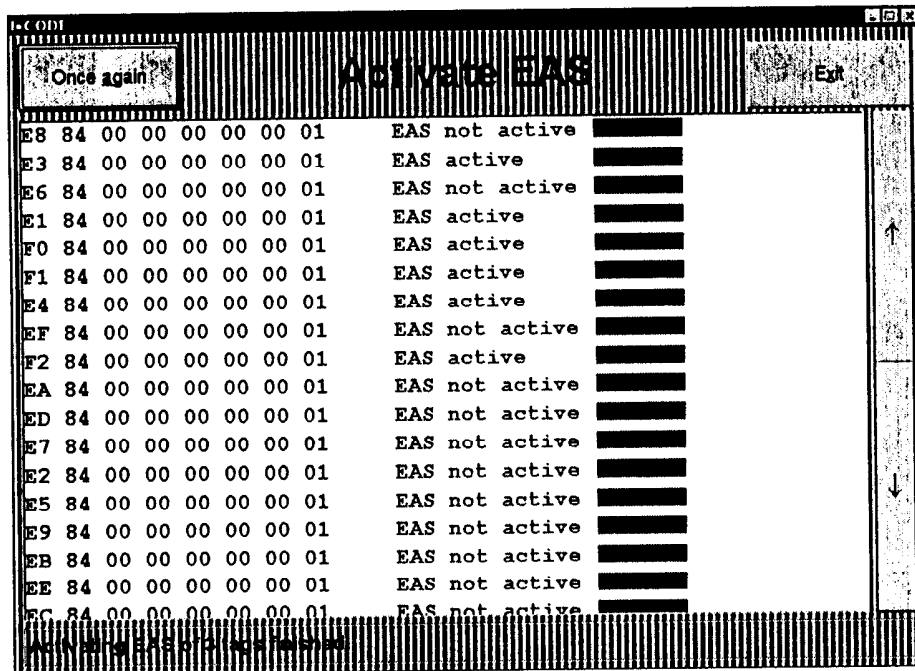
Once again Exit

E8	84	00	00	00	00	00	01	EAS not active	██████████	
E3	84	00	00	00	00	00	01	EAS not active	██████████	
E6	84	00	00	00	00	00	01	EAS not active	██████████	
E1	84	00	00	00	00	00	01	EAS not active	██████████	
F0	84	00	00	00	00	00	01	EAS active	██████████	
F1	84	00	00	00	00	00	01	EAS active	██████████	
E4	84	00	00	00	00	00	01	EAS not active	██████████	
EF	84	00	00	00	00	00	01	EAS not active	██████████	
F2	84	00	00	00	00	00	01	EAS active	██████████	
EA	84	00	00	00	00	00	01	EAS not active	██████████	
ED	84	00	00	00	00	00	01	EAS not active	██████████	
E7	84	00	00	00	00	00	01	EAS not active	██████████	
E2	84	00	00	00	00	00	01	EAS not active	██████████	
E5	84	00	00	00	00	00	01	EAS not active	██████████	
E9	84	00	00	00	00	00	01	EAS not active	██████████	
EB	84	00	00	00	00	00	01	EAS not active	██████████	
EE	84	00	00	00	00	00	01	EAS not active	██████████	
EC	84	00	00	00	00	00	01	EAS not active	██████████	

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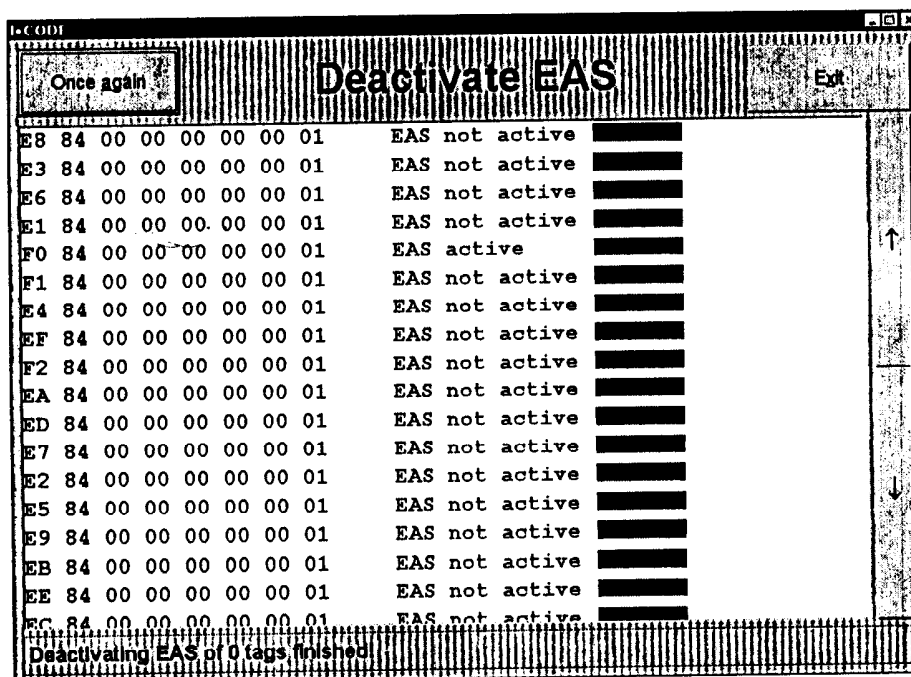
Activate EAS

This command activates the EAS function of none, some or all of the previously read labels. A selector box as described at the write command is used to select the concerned labels.



Deactivate EAS

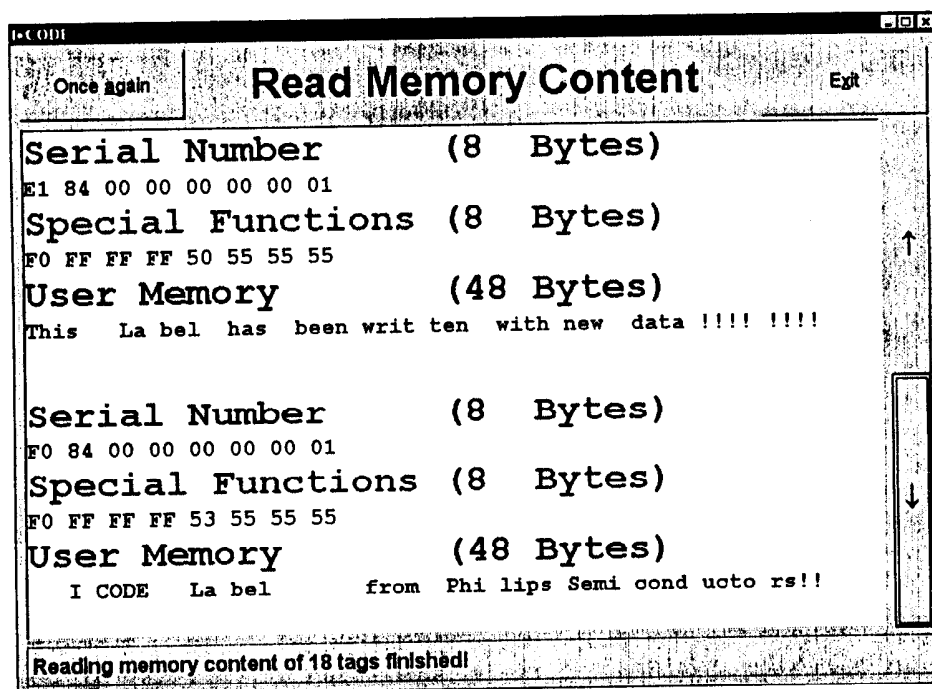
This command deactivates the EAS function of none, some or all of the previously read labels. A selector box as described at the write command is used to select the concerned labels.



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Memory Content

As a result of this command you get the complete memory content of all detected labels.



Block Number	Content	
0 ... 1	Unique Serial Number	(8 Bytes)
2 ... 3	Special Function Blocks (Write Access, EAS/QUIET)	(8 Bytes)
4 ... 15	User Memory	(48 Bytes)

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