#### **Description of TiProg Application (version 1.2.0)**

User Interface (UI) of TiProg application is divided commonly by two panes: mode selector pane and project(s) one. Also there are Main menu and Status bar.

Following diagram shows	s typical view of TiProg UI:
-------------------------	------------------------------

Name of current proje	ect Tab of current project -	Another project tab	Current operation	
Main menu ———	TiProg - Fun Card 6			- = ×
New project selector ——	Select mode: 4	Fun Card 6 * SPic Card 2		<b>∢ ∳ ×</b>
Mode of new project	Cards *	Select card operation:		
Type/subtypes of new project		Elash:     Int. EEPROM:     EXT. EEPROM:		
Specific project —— being created	Fun Card 2 (+24Cb4) Fun Card 3 (+24C128) Fun Card 4 (+24C256) Fun Card 5 (+24C512) Fun Card 6 (+24C1024)	Activity progress:	]	
Mode of new project			O course o	
	/		COM100: Cor	nection OK
	Window split control	Connectic	n status —	

## **Mode Selector**

This pane is intended to create a new project. To do this you should select mode of a new project, then browse "tree, and finally **double click** (or press **Enter**) on a tree item of specific project.

Here is brief description of supported projects:

• Cards

Card based projects are grouped by family and type of micro-processor. Following micro-processor families are currently supported:

- AVR (Atmel)
- PIC (Microchip)

## • Transparent mode

This mode is intended to support so called "pass-through" operation of TiProg hardware. Following types of operations are currently supported:

- o FBUS
- o MBUS
- o SIM Reader

The mode selector pane can be easily hided when not needed any more, and later restored to its original place and size:

ĺ	😻 TiProg - F	un Card 6			<ul> <li>Click to hide</li> </ul>
	<u>F</u> ile <u>V</u> iew	<u>S</u> ettings	<u>H</u> elp		
	Select mode:		ф ́		
Click to expand		Click	to restore		
🐲 TiProg - Fun Card 6		🐲 TiP	rog		
<u>File View Settings H</u> elp		Eile	<u>V</u> iew <u>S</u> ettings	Help	
Fun Card 6		<b>S</b>	elect mode:	4	
Select card operation:		ielect mo	Cards	×	
Bead       Elash:		ode:	Transpare	ent mode 🛛 🕿	

Dragging mode selector's title it's possible to re-dock the pane to left, right, bottom or up side of main window. Also it's possible detach the pane by dragging its title outside of main window (or by double clicking on pane's title bar):

😻 TiProg - Fun Card 6	_ = X	😻 TiProg - Fun Card 6
Eile View Settings Help		File View Settings Help
■ Fun Card 6 4 b X	Select mode: #	The first gettings gettings gettings gettings gettings
Select and operation:  Withe  Read  Bash:  ph. EEPROM:  Activity progress:  Write Gard  Lock Card	Cards R AVR-based AVR-based AVR-based AVR-based AVR-based AVR-based AVR-based AVR-based AVR-based AVR-based AVR-based Fun Card 2 (+24C64) -Fun Card 2 (+24C64) -Fun Card 3 (+24C55) -Fun Card 3 (+24C512) -Fun Card 3 (+24C512) -Fun Card 3 (+24C512) -Fun Card 3 (+24C64) -FULGF828 FULGF828 FULGF828 FULGF828 COM100: Connection OK;	## Fun Card 6       ( ) X         Select card operation:

+ AT9058535

#### **Projects pane**

This pane holds one or more views of currently open projects. You can switch between project views by just one click on its tab. Dragging a project tab you can also rearrange project tabs.



Content of project view depends on project mode, type and current operation:

• Cards

Here is typical view of AVR-based project:

	/	"" means that project has	been m	odified
	🌆 Fun Card 6 *		⊲ ⊳ <b>×</b>	
	Select card operation	on:		Select file dialog
Write MCU —	🖊 <u>W</u> rite 👉 R	ead	/	
Flash of Card	🕂 🗹 Elash:	C:\Cards\AVR\Fun6_Flash.hex		
But skip MCU	Int. EEPROM:		]	
(Internal) EEPROM	Ext. EEPROM:	C:\Cards\AVR\Fun6_ExtEE.hex		
Write External 24X	Activity progress:		1	
EEPROM as well	Write <u>C</u> ard	Lock Card		

• Transparent mode

Here is typical view of "Transparent mode" project:

🔤 Transparent - SIM	$\triangleleft  \triangleright  \mathbf{X}$
Step by step instructions            • Press "Start" button to enable "Transparent" mode.             • Launch 3rd party application which use communication port.             • Do what ever you need with the application.             • Close the application.             • Recycle power of device hardware.             • Press "Stop" to disable "Transparent" mode.	
Stop	

#### <u>Main menu</u>

• <u>F</u>ile

This menu is intended to load/save a project setting. Using "Recent projects" submenu you can quickly load one of the latest being used project.

🚸 TiF	Prog	- = ×
File	View Settings Help	
۵	Load project	$\triangleleft \triangleright \mathbf{x}$
	Save project	
-	Save As	
	Recent projects	1 C:\Fun Card 6.TiProg
-9	Exit	2 C:\\serik\My Documents\TiProg Projects\Fun6\Fun6_Zero.TiProg
		3 C:\\serik\My Documents\TiProg Projects\Fun6\Fun6_Random.TiProg
		4 C:\\serik\My Documents\TiProg Projects\Fun6\Fun Card 6.TiProg

## • <u>V</u>iew

Using this menu you can choose language of TiProg application UI.



## • <u>Settings</u>

This menu is intended to change connection state, and choose communication port. The same functionality can be reached by means of <u>Status bar</u>.



- Skip Invalid Blocks Allows skipping "invalid" data blocks of a hex file being written. The main reason why a block may be "invalid" is that its address is out of allowed range, and so can't be correctly written to the particular MCU and/or EEPROM.
- Verify Data Writes Now user may skip verification phase of a write, and so save his/her time. NB! Switching off the setting will not guarantee that a data has been written correctly.

# • <u>H</u>elp

Using this menu you can launch "About" or "Update Wizard" windows.

🛞 TiP	rog			_ = X
File	View	Settings	Help About Update Wizard	4 ⊳ ×

• About window may be very helpful in case if you need support. The window shows version of TiProg software, and if connection is OK, then version and serial number of TiProg hardware. All this data can be easily copy/pasted by means of "Copy info" button.



• "Update Wizard" menu item is needed to initiate firmware update of TiProg hardware. Selecting the item you will see following window:

Welcome to the Up	date Wizard	
Start page explaining w	hat this wizard does.	
Using this wizard you can available. To successfully	update your hardware with the lat do this you should exactly follow in	test firmware nstructions below.
Current version of device firmware update.	firmware (1.2.0) is up to date, so	you don't need
	Press 'Next' to start	t updating process.

NB! Carefully read and exactly follow all instructions on this and successive pages of the Wizard. Incorrect usage of firmware update may lead to malfunction of TiProg hardware.

## <u>Status bar</u>

Status bar is mainly intended to show current status of connection. Right clicking on connection status area you can easily change its state, or switch to another COM port. Also **double clicking** on connection status area you can quickly toggle connection state between Online/Offline modes.



During card writing/reading the status bar also shows progress of currently running operation. Right clicking on connection status area allows you to cancel current operation.



#### **Progress information**

Progress information shows description of current activity, and (at finish) overall status and time (in seconds) of whole operation.

1	TiProg - Silver Card _ = = ×
E	le <u>V</u> iew <u>S</u> ettings <u>H</u> elp
	Silver Card *
Select mode	Select card operation:
	Ext. EEPROM:
	Activity progress: Read has finished successfully. 8.4 s
	100 %
	Read Card
	OM100: Connection OK
De	escription of current activity, or Overall time of overall status at finish operation