



1 Requirements

1.1.1 Minimum Hardware Requirements

CPU:

Pentium 1 GHz or higher.

RAM:

512 MB or more.

Video card:

3D accelerated; OpenGL 1.1 compatible; 800x600 65,535 colors.

Disk space:

you may need up to 650 MB of available (if MS Framework is not yet installed).

you may need up to 48 MB of available (if MS Framework is already installed).

USB:

two free USB(2 or 3) ports. One for the license dongle and one for the Smarty.

1.1.2 Supported Operating Systems

Windows XP32 bit Service Pack 3.Windows Vista32 bit Service Pack 2.Windows Vista64 bit Service Pack 2.Windows 732 bit Service Pack 1.Windows 764 bit Service Pack 1.Windows 832 bit.Windows 864 bit.



2 SmartyUDCsw program installation

2.1 Downloading the SmartyUDCsw program

2.1.1 Go to our website <u>www.tomelectronics.it/download</u> and click on "Smarty UDC".



Interplane maddelectronics.com/DownloadUDC.html
 P = 0 C X
 MADS Electronics -Smatty = X
 MADS Electronics -Smatty = X
 PERFORMANCE KING
 #1 in Cummins Performance
 #2 in Contact Performance

2.1.2 In the "Software" section on that page click on the link "SmartyUDCsw_Setup.exe".



2.1.3 If asked if you want to run or save the file, save it in any folder on your PC.

2.1.4 (Should the download start automatically, the file will be saved in the "Downloads" folder.)

		`✔ #1 #		PE	RFOR		EK		
Home	Products	F.A.Q.	Downloads	About Us	Help	Contact Us	Pricing	Distributors	News
			Docume	ntation					
		File	e Name		Description	n		Date	Size
Sr	nart	Sm	Smart/UDCSoftware.pdf		Smarty UDC Software presentation		Jan. 30, 2012	97 KB	
		Dis	Disclaimer.pdf		Disclaimer of liability		Dec. 14 2005	14 KB	
	JDC		Software		1				
		File	e Name		Description	n		Date	Size
Sof	ftwa	re sm	art/UDCsw Set	up.exe	Smarty UDC \	/ersion 1.1.2.0 *		Jun. 01, 2012	13,309 KB
			Software	requiren	nents				
		File	e Name		Descriptio	n		Date	Size
		Mic	rosoft Framewor	<u>k 3.5 SP1</u>	Microsoft .NE pack 1 downl	T Framework 3.5 oad page	Service	Dec. 17, 2008	231,500 KB
	Do you wan	to open or s	we SmartyUDCC)emoSetun 7	z (4.75 MB) fro	m www.madcala	rtropics cor	m?	× istal the

2.2 Installation of the SmartyUDCsw program

2.2.1 Double click on the .exe file (or right click and then Open) you have just extracted to start the installation.



2.2.2 A window "Welcome to the InstallShield Wizard for SmartyUDCsw" pops up, click on "Next >".

🛃 SmartyUDCsw - InstallShield	Wizard
STARTY	Welcome to the InstallShield Wizard for SmartyUDCsw
	The InstallShield(R) Wizard will install SmartyUDCsw on your computer. To continue, click Next.
	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel





2.2.3 In the window "License agreement", select "I accept the terms in the license agreement" and then click on "Next >".

B SmartyUDCsw - InstallShield Wizard	×
License Agreement Please read the following license agreement carefully.	RTY
END-USER LICENSE AGREEMENT FOR Smarty UDC sw IMPORTANT PLEASE READ THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT CAREFULLY BEFORE CONTINUING WITH THIS PROGRAM INSTALL M.A.D.S. Electronics Stl. End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and M.A.D.S. Electronics Srl. For the M.A.D.S. Electronics Srl software product(s) identified above which may include associated software components, media, printed materials, and "online" or electronic documentation ("Smarty UDC sw"). By installing, copying, or otherwise using the Smarty UDC sw, you agree to be bound by the terms of this EULA. This license agreement represents the entire agreement concerning the program between you	•
I accept the terms in the license agreement I do not accept the terms in the license agreement	
InstallShield < Back Next > Cance	4

2.2.4 In the window "Ready to install the program", click on "Install". (If the Windows UAC is active in "User Account Control", click on "Yes".)

량 SmartyUDCsw - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield < <u>Back</u> Cancel

2.2.5 Wait for the installation to complete. You will see the message: "InstallShield Wizard Completed" click on "Finish".

SmartyUDCsw - InstallShield	Wizard	×
SA SMARTY	InstallShield Wizard Completed	
	The InstallShield Wizard has successfully installed SmartyUDCsw. Click Finish to exit the wizard.	
	< Back Finish C	ancel





2.2.6 (Eventually you may have to wait for the installation of the FTDI driver to complete.

That window will close automatically without any further intervention.)



2.3 Exceptions to the typical (above) installation process.

2.3.1 If a previous (older) version of the SmartyUDCsw was already installed on your computer in the window:

"SmartyUDCsw – Install Script", click on "Yes".



2.3.2 If the same revision of the SmartyUDCsw is already installed on the PC, in the window "Program Maintenance" click on "Cancel" or repair and re install the software.







2.3.3 Should Windows on your PC not have already the "Microsoft .NET Framework 3.5 SP1" installed, during the installation you will get the window "SmartyUDCsw requires the following..." click on "Install".

2.3.4 Now you need to wait for the "Microsoft .NET Framework 3.5 SP1" to download and install.

SmartyUDCsw - InstallShield Wizard
SmartyUDCsw requires the following items to be installed on your computer. Click Install to begin installing these requirements.
Status Requirement
Pending Microsoft .NET Pramework 3:5 SP1 (Web Download)
Install Cancel

2.3.5 In the window "The installation of SmartyUDCsw requires a reboot....", click on "Yes".

2.3.6 Wait for the PC to reboot, once Windows has started again the installation will proceed

(See the above steps for the typical installation.)

Smartyl	JDCsw - InstallShield Wizard
2	The installation of SmartyUDCsw requires a reboot. Click Yes to restart now or No If you plan to restart later.
	Si No



3 Starting the SmartyUDCsw program

3.1 Insert the SmartyUDCsw main license dongle!

3.1.1 Insert the main license dongle in one of your PC's USB ports.

3.1.2 The LED on the dongle will flash for a short moment and Windows will install the needed driver for the dongle automatically (No user intervention required.)

3.1.3 If no dongle is inserted into the PC the UDC software will start only in Demo mode!!!



3.2 Starting the SmartyUDCsw

3.2.1 Double click (or right click and then Open) on the "SmartyUDCsw" icon which has been created on your desktop (The one with the Lion head...).

OR you can find it: "Start > All programs > TomElectronics Srl > SmartyUDCsw".



3.3 When first started, complete the user data

3.3.1 During the first start (or if never completed) you will be requested to complete the user data. (We do not collect any information from your PC! This is needed only to identify the files you create with the tuning software!).

3.3.2 It possible to update those information's in a second time from the menu: "Tools > User data...".

	-	
Smarty	a) Company name	M.A.D.S. Electronics Srl
/IN	b) First name	
Iser File Not	b) Last name	
	c) Address	Via Monte Cervino 2
	d) ZIP code	37057
	e) City	San Giovanni Lupatoto
	f) District	Verona
	g) Nation	Italy
	h) E-Mail	info@madselectronics.com
Map Selectio	i) Phone	+39 045 9971219
	I) Fax	+39 045 2227129
	m) Web	www.madselectronics.com
Map Info & T	a) Company name	
	Company name	
		OK Cancel



3.4 Download of updated 'Smarty UDC settings'

3.4.1 By default, at every start of the tuning software, the availability of a newer version is checked through the internet.

3.4.2 Should a new version have become available, you will be informed and requested to download the update.

Smarty UD	C sw - Question
?	There is an update of the 'Smarty UDC settings' file, download it?Your version is2012.04.05.12.57.47.57.The new version is2012.06.01.14.05.48.66.
	Yes No

Important advice!

We highly recommend that you keep the software up to date!



4 Update Smarty's software with the UDCsw program.

The update manager is completely functional also in Demo version!

4.1 Smarty update Manager

4.1.1 Connecting the Smarty to the PC

Warning!

Never connect the Smarty to the vehicle and the PC at the same time. Severe damage to the Smarty and/or the PC will result. These defects will not be covered under warranty!

4.1.1.1 Connect the Smarty to a USB port on the PC.

4.1.1.2 The Smarty will receive the power from the PC through the USB port. Wait for Smarty's main menu to show up on it's display.

4.1.2 Updating a Smarty that already has an UDC compatible software installed.

Notice.

The completely automated update for Smarty will work only if the Smarty has already an UDC compatible software version installed! It is possible to identify the UDC compatible version when the Data Version on Smarty's display starts with an "U:" **Example: SJR59V514A_URS01A**

4.1.2.1 In the UDC tuning software, select the menu: "Smarty > Smarty update manager".

The Smarty update manager window will pop up.





4.1.2.2 In the update manager window click on the "Detect" button. The PC will communicate with the Smarty and then check our website for the available and matching software updates. (This may take a few seconds.)

	C	Detect	
Model	S06-SSR		
Firmware version	F:4.11I!		
Software version	U:SS01B		
Smarty <u>m</u> odel			
S06-SSR			•
Shows the ME	softwares		
Smarty updates <u>a</u> v	ailable		
<select one=""></select>			•
		Download	
		Download	

4.1.2.3 Under the title "Smarty updates available" you find a small window, click on it and select the update you wish to install on your Smarty (For example, the normal Revo software or the dedicated "TNTR" race only software). Once you have selected the software update you will see the description of that software in the "Comments" window.

Should you want to select a different software, just go back to the "Smarty updates available" and select a different one.

	Detect	
Model	S06-SSR	
Firmware version	F:4.11!!	
Software version	U:SS01B	
Smarty model		
S06-SSR		
Shows the ME	softwares	
Smarty updates <u>a</u> v	ailable	
Smarty SSR Ver. 4.111, Data: I years: from 2003 t	J:SS01B o 2007	
	Download	
	<u>D</u> ownload	



4.1.2.4 Now click on "Download" button in the update manager. The software update you have selected will be downloaded onto your PC. While the selected software is downloaded onto your PC, a window will become visible which shows the progress of the download. Once the download is completed the same window will show in which folder the file has been saved.

		D <u>e</u> tect		
Model	S06-SSR			
Firmware version	F:4.11!!			
Software version	U:SS01B			
Smarty <u>m</u> odel				
S06-SSR				•
Shows the ME	softwares			
Smarty updates <u>a</u> v	ailable			
SSR59V411I_US	S01B			•
Smarty SSR Ver. 4.111, Data: years: from 2003 f	U:SS01B o 2007			
		Download		
MyDocuments>	SmartyUDCsw	/\Firmwares\SS	SR59V411I_	USS01B.7z
		Indate >		
		Opdate >		

4.1.2.5 Once the download of the file has been completed, click on the "Update >'' button.

The Smarty USB software will launch automatically. Click on the "Send" button to start the actual update of your Smarty.

SmartyUSB Upo	Jate	
File: SSR59V	/411I_USS01B.smt	
	Send)



4.1.2.6 Follow the on screen instructions to complete the update process.

Smar	rtyUSB Update 📃 🗖 🕮 🗶
<u>F</u> ile <u>H</u>	lelp
File:	SSR59V411I_USS01B.smt
	OK on Smarty 0
	Transmission correctly performed to Smarty
	ОК

Advice!

During the update process, do NOT disconnect the Smarty, do not terminate the Smarty USB software, do NOT turn the computer off or you will need to repeat the whole sequence!

4.1.3 Updating a Smarty that has <u>NOT</u> already an UDC compatible software installed.

Notice.

If your Smarty does NOT already have a UDC compatible software update installed you need to follow a few simple steps to perform the update of your Smarty. It is possible to identify the UDC compatible version when the Data Version on Smarty's display starts with an "U:" **Example: SJR59V514A_URS01A**

If the software revision installed on your Smarty does not have the "**U**" in it's name then you need to select manually the model of your Smarty.

4.1.4 Connecting the Smarty to the PC

Warning!

Never connect the Smarty to the vehicle and the PC at the same time. Severe damage to the Smarty and/or the PC will result. These defects will not be covered under warranty!

4.1.1.1 Connect the Smarty to a USB port on the PC.

4.1.1.2 The Smarty will receive the power from the PC through the USB port. Wait for Smarty's main menu to show up on it's display.



4.1.1.3 In the UDC tuning software, select the menu: "Smarty > Smarty update manager".

The Smarty update manager window will pop up.

Smarty UDC sw - Ba	sic
File Edit View	Smarty Comparison Tools Help
Document Data Product	Read stock from Smarty CTRL+N Write file to Smarty CTRL+W
Smarty	Read info of Smarty
User File Notes	Smarty update manager
Map Selection	

4.1.1.4 In the update manager window, you need to select manually the model of your Smarty since the UDCsw can not detect on it's own what Smarty is connected to the PC.

To do this, you need to know what model your Smarty is. If you don't know, you need to check the serial # on the back side of your Smarty, the first letters and digits represent the model of your Smarty.

	Detect	
Model		
Firmware version		
Software version		
Smarty <u>m</u> odel		
<select one=""></select>		
Shows the ME softw	ares	
Smarty updates <u>a</u> vailable		
<select one=""></select>		-
_ <u>o</u> mments		
	Download	
	_	
	Undate >	





4.1.1.5 Once you know the model of your Smarty, click on the "Smarty Model" window and select your model from the drop down list.

	Detect	
Model		
Firmware version		
Software version		
Smarty <u>m</u> odel		
S06-PoD		
Shows the ME softwa	ares	
Smarty updates <u>a</u> vailable	<u></u>	
<select one=""></select>		
Comments		
[Download	

4.1.1.6 Under the title "Smarty updates available" you find a small window, click on it and select the update you wish to install on your Smarty (For example, the normal Revo software or the dedicated "TNTR" race only software).

Once you have selected the software update you will see the description of that software in the "Comments" window. Should you want to select a different software, just go back to the "Smarty updates available" and select a different one.

641 L		Detect		
Model				
Firmware version			 	
Software version			 	
Smarty model				
S06-PoD				
Shows the ME softw	ares			
Smarty updates <u>a</u> vailable				
S06PV411E_URS01B	ノ			
Comments				
Smarty S06 PoD	01P			
REVO software				
years: from 2003 to 200	1			
		<u>D</u> ownload		
		<u>D</u> ownload	 	



4.1.1.7 Now click on "Download" button in the update manager. The software update you have selected will be downloaded onto your PC. While the selected software is downloaded onto your PC, a window will become visible which shows the progress of the download. Once the download is completed the same window will show in which folder the file has been saved.

	D <u>e</u> tect
Model	
Firmware version	
Software version	
Smarty <u>m</u> odel	
S06-PoD	
Shows the ME	softwares
Smarty updates <u>a</u> va	ailable
S06PV411E_URS	01B -
Smarty S06 PoD Ver. 4.11E, Data: REVO software years: from 2003 to	U:RS01B 9 2007
	Download
<mydocuments>\</mydocuments>	SmartyUDCsw\Firmwares\S06PV411E_URS01B.7z
	<u>U</u> pdate >

4.1.1.8 Once the download of the file has been completed, click on the "Update >" button. The Smarty USB software will launch automatically. Click on the "Send" button to start the actual update of your Smarty.

SmartyUSB U <u>F</u> ile <u>H</u> elp	pdate	
File: S06PV	411E_URS01B.smt	
	Send)



4.1.1.9 Follow the on screen instructions to complete the update process.

Smar	rtyUSB Update
<u>F</u> ile <u>H</u>	lelp
File:	S06PV411E_URS01B.smt
	OK on Smarty 0
	Transmission correctly performed to Smarty
	ОК

Advice!

During the update process, do NOT disconnect the Smarty, do not terminate the Smarty USB software, do NOT turn the computer off or you will need to repeat the whole sequence!



5 Associate or VIN# lock the Smarty to the vehicle

5.1 Connecting the Smarty to the vehicle

5.1.1 Disconnect the Smarty from the PC!

Warning!

Never connect the Smarty to the vehicle and the PC at the same time. Severe damage to the Smarty and/or the PC will result. These defects will not be covered under warranty!

5.1.1 Connect the Smarty to the vehicle's OBD port.

5.1.2 Smarty receives power from the vehicle's OBD port.

5.2 Associate or VIN# lock the Smarty to the vehicle

5.2.1 In order for the Smarty to work with the UDC tuning software, the Smarty first needs to know which vehicle he has to work with. This can be done either by VIN# locking the Smarty to the vehicle **OR** by "Associating" the Smarty to the vehicle. Whichever is easiest for you!

5.2.2 To VIN# lock the Smarty, the vehicle needs to be programed with any of Smarty's standard CaTCHER power levels. During this process the Smarty reads the information's from the vehicle and VIN# locks to that vehicle. NO further action is required at that point for the Smarty to work with the UDC tuning software.

Hint: if your Smarty was already VIN @ locked to your vehicle when you updated the Smarty with the UDC compatible software, no further action is required.

5.2.3 In the case of a Smarty that is **NOT YET** VIN# locked to your vehicle (like for example, new out of the box) you can "Associate" the Smarty to your vehicle without the need to program the vehicle first with a performance software.

5.2.4 Connect the Smarty to your vehicle, wait for the main menu to show up and press the key: With the S06 & S67, press key # 9

With the JR, press the "<" and ">" keys at the same time.

The Smarty will read the information's he needs from the vehicle in about 2 seconds. Just follow the instructions on the display. (The Smarty will then VIN# lock to that vehicle once it's programmed for the first time)

5.2.5 Once EITHER of the above have been done, it is then possible to connect the Smarty to the PC and read the stock software for that vehicle from the Smarty. Once the stock software has been uploaded to the computer you can start to modify it. Once modified you can then update your Smarty with it and then update your vehicle with your own modifications.

For complete instructions of the tuning software please refer to: "Help > Application Help" in the UDC tuning software.