
VVDI PROG User Manual

Version: 4.4.6

VVDI PROG

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1.Document Declaration

Please view the following declaration carefully:

- ◆ VVDI PROG User Manual can help you maintenance vehicles with device. Please DON' T used for illegal purpose, Please follow the national laws
- ◆ VVDI PROG User Manual can help you how to use VVDI PROG software, please view carefully
- ◆ Any illegal use VVDI PROG Device or User Manual,The user should take all risks, the company does not assume any responsibility
- ◆ This User Manual according to V4.4.6, new version User Manual please refer to new new version software

2.Safety Precautions

To prevent personal injury or device damage, please read the User Manual carefully before operation and adopt the following safety precautions:

- ◆ Always operate the device under safe condition
- ◆ Ensure work condition with good ventilation, because of the harmful gas generated when soldering
- ◆ Soldering on anti-static & constant temperature solder station
- ◆ Disconnect power supply before soldering
- ◆ Ensure solder station connected to ground
- ◆ Keep the device clean and dry, Do not place in any wet, oily, dusty area

3.Noun explanation

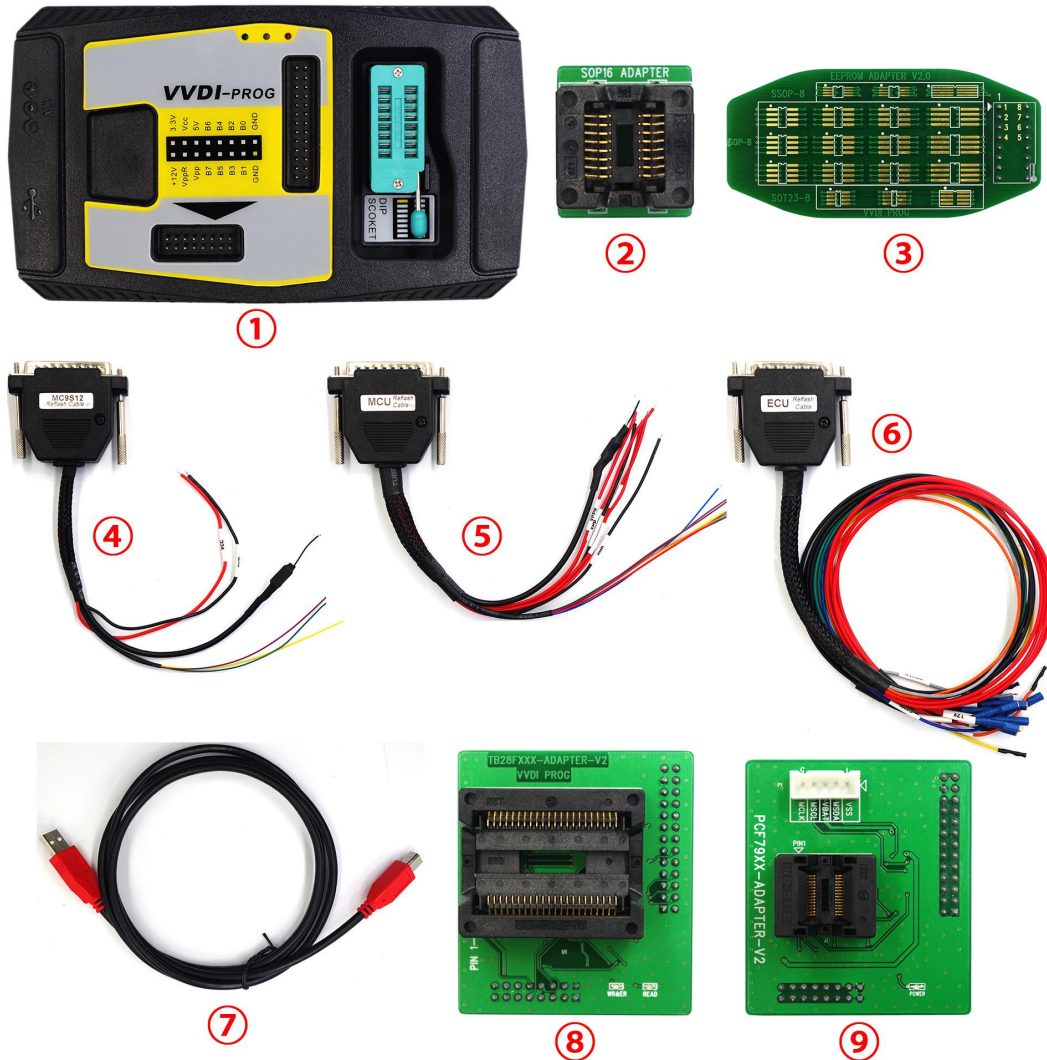
- ◆ EEPROM: Electrically Erasable Programmable Read-Only Memory, usually store the generated data of chip running
- ◆ FLASH: Flash EEPROM Memory, usually store the program of chip
- ◆ D-FLASH: Data Flash, the same function with EEPROM
- ◆ P-FLASH: Program Flash, the same function with FLASH
- ◆ ROM: Read-Only Memory, usually store the program of chip, can not erase or write
- ◆ EEE: Emulated EEPROM, the same function with FLASH
- ◆ POF: Program Once Field, can write data once, can not erase or rewrite

4. Hardware Overview

4.1. Device specification

option	Specification		
Working temperature	-20 ~ 70 °C (- 4 ~ 158 °F)		
Storage temperature	-40 ~ 85 °C (-40 ~ 185 °F)		
USB interface	USB 2.0		
Power adaptor	12V / 2A		
Consumption	1W		
Device dimensions	L	W	H
	146 mm	85 mm	28 mm
Package dimensions	L	W	H
	220 mm	155 mm	80 mm
Net weight	180 g		
Gross weight	530 g		

4.2. Device units



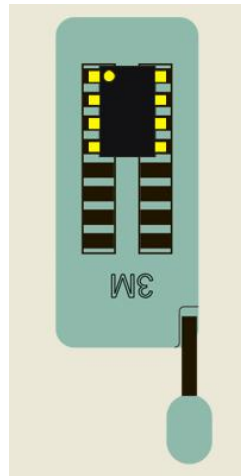
1. VVDI PROG device
2. EEPROM socket
3. EEPROM adaptor
4. MC9S12 Reflash Cable V1
5. MCU Reflash Cable V2
6. ECU Reflash Cable
7. USB B-Tyte Cable
8. TB28FXXX adaptor (optional)
9. PCF79XX adaptor (optional)

4.3. Unit description

1. 16 Pin DIP socket

Function: Read EEPROM chips

Use method: Follow the image direction when insert the DIP chip (PIN1 as yellow point show as the picture); SOP chip need soldering on 16Pin adaptor first, then insert the chip follow the image direction



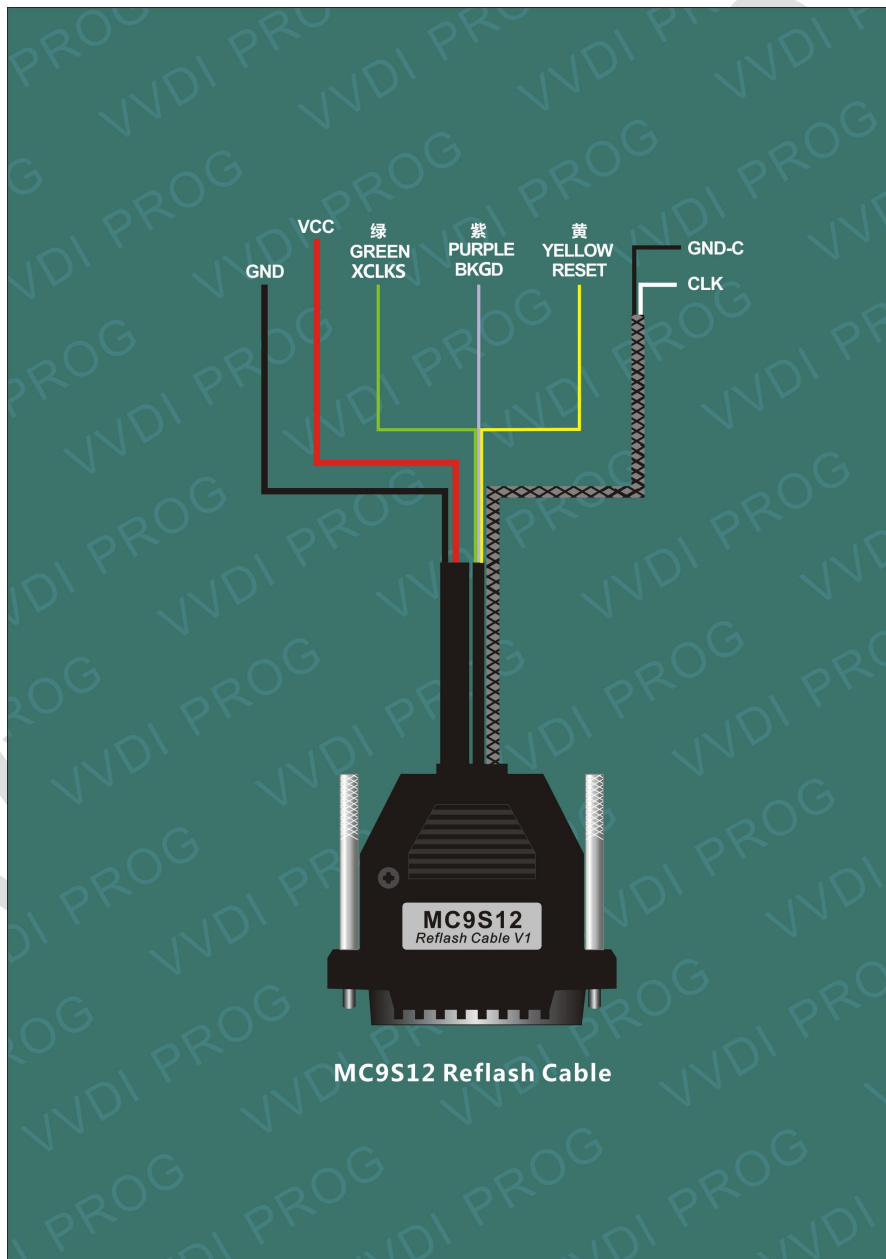
2. MC9S12 Reflash Cable V1

Function: Read & Write MC9S08, MC9S12 series chips, current version is V1

Use method: Soldering the line on pin of chip before read & write

Notes:

- (1) Please check all connection lines, ensure correct and reliable connection
- (2) Please Don't lengthen CLK and GND-C line, maybe cause read data failed



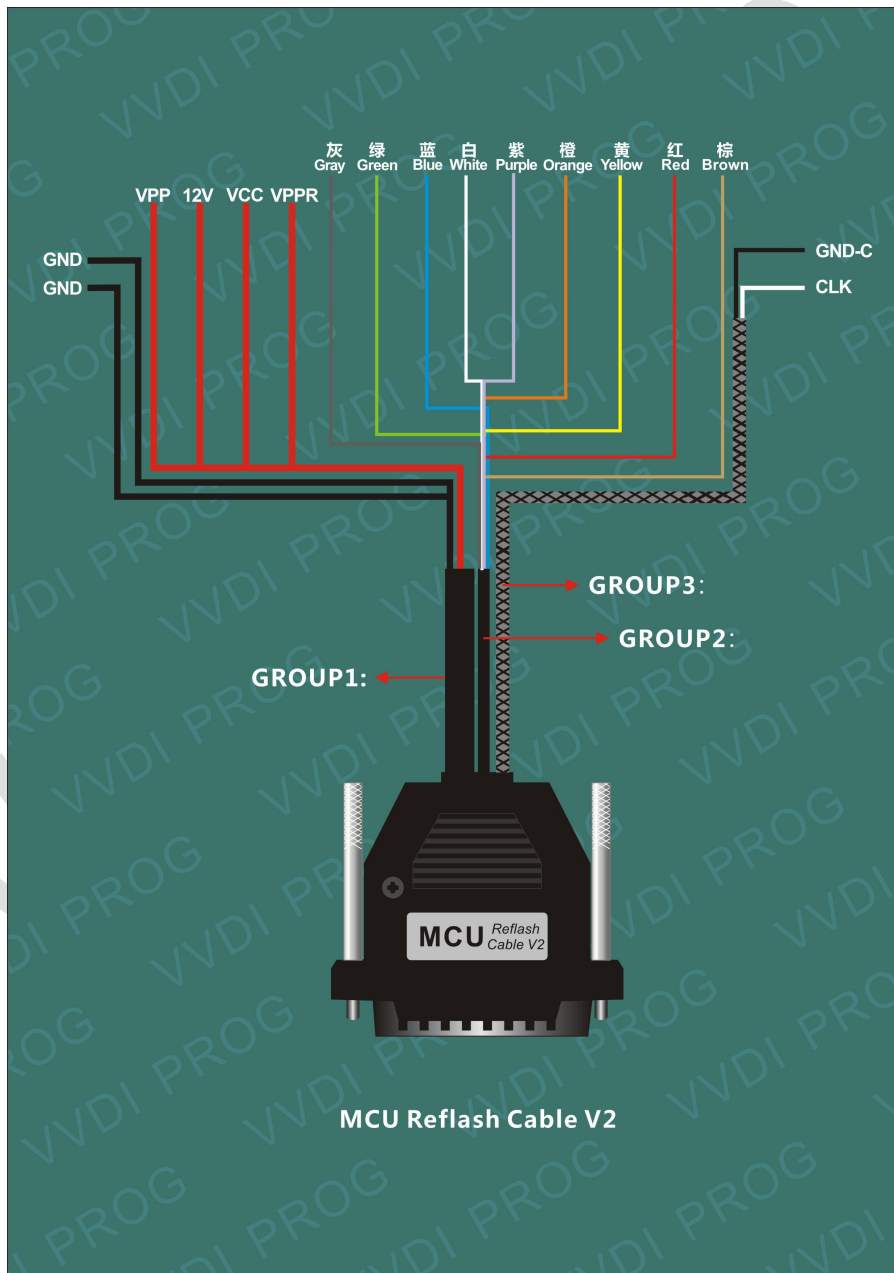
3. MCU Reflash Cable V2

Function: Read & Write MC68HC(9)12, V850, H8X, R5C series chips,
current version is V2

Use method: Soldering the line on pin of chip before read & write

Notes:

- (1) Please check all connection lines, ensure correct and reliable connection
- (2) Please Don't lengthen CLK and GND-C line, maybe cause read data failed



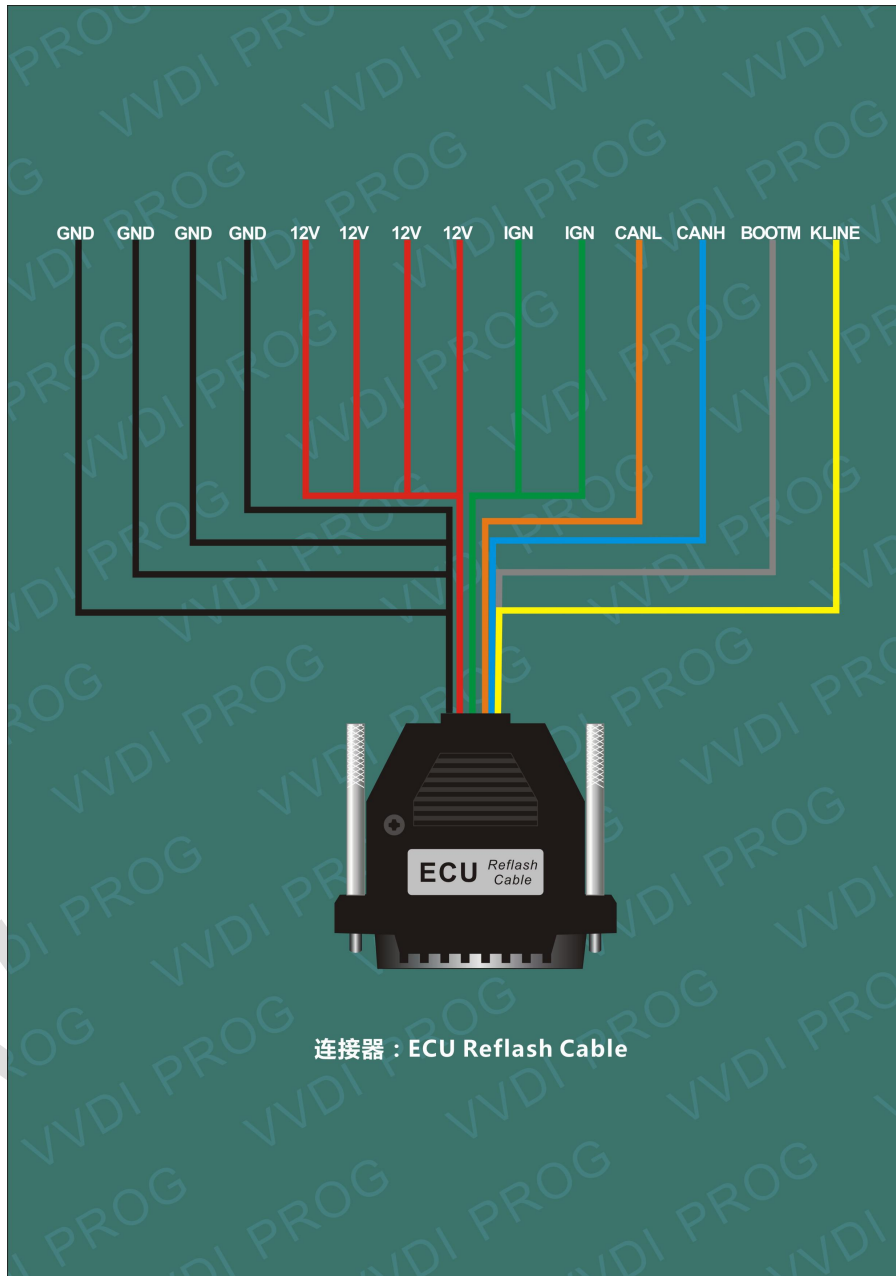
4. ECU Reflash Cable

Function: Read & Write engine ECU

Use method: Connect the ECU and R&W

Notes:

Please check all connection lines, ensure correct and reliable connection

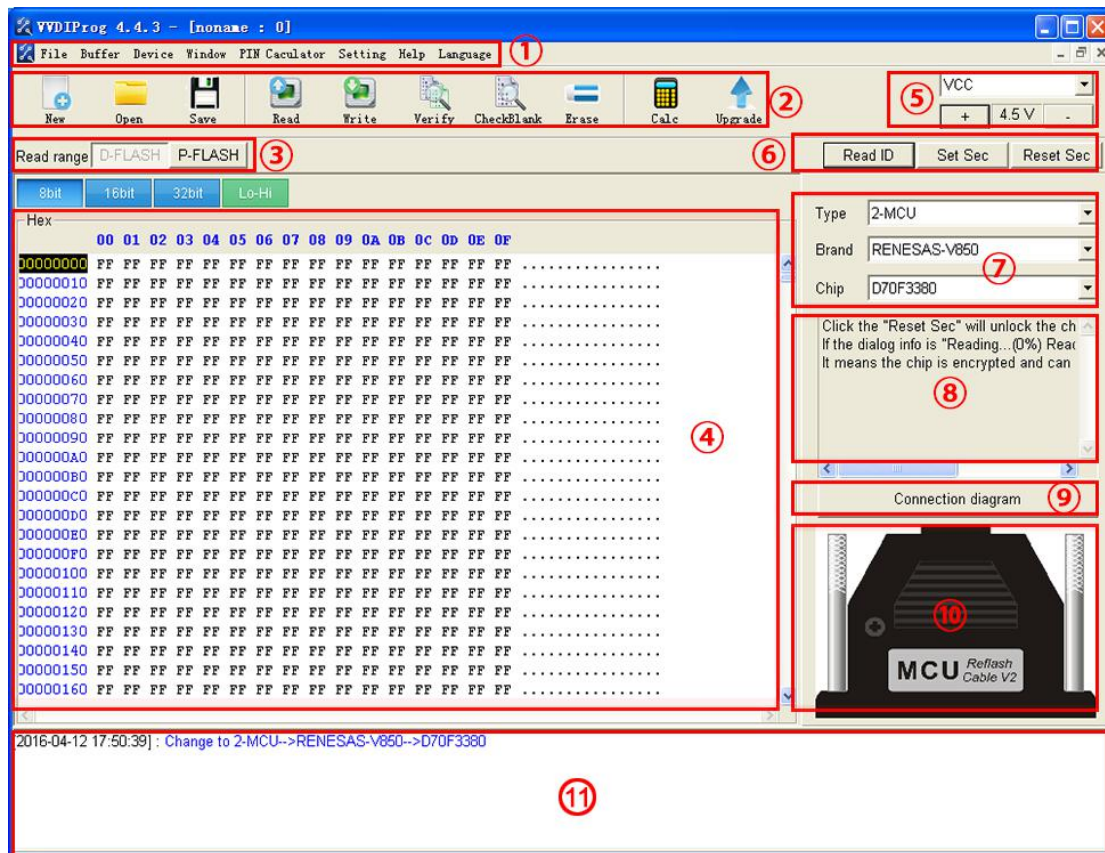


5. Software Overview

5.1. Introduction

- ◆ Support R&W lots of chips, include MC9S08 series, MC68HC(9)12 series, MC9S12 series, V850 series, H8X series, R8C series, PCF79XX series and most eeprom chips etc .
- ◆ Support chip data verify, check blank function
- ◆ Support data file compare function
- ◆ Support R&W BMW N20, N55 ECU (show ISN directly)
- ◆ Stable R&W MC9S12XE series chips (5M48H/1N35H/2M53J/3M25J etc.)
- ◆ Support renew PCF79XX remote, currently support BMW E/F series
- ◆ Lots of connection diagram

5.2. Software interface



1. Operation options
 - File : Load data file
 - Buffer : Support copy, paste, search, fill function
 - Device : Support chip read, write, erase operation
 - Window : Compare two data files
 - Setting : Read&Verify, Write&Verify, Erase&Check Blank configuration
 - Language : Change the language, current support English and Chinese
2. General options

Provide General function buttons, simple and easy for operation, include: new, open, save, read, write, verify, check blank, erase, calculator & upgrade
3. Read range

Parts of chips include several data areas, for example EEPROM, FLASH and etc. click on the button select read range
4. Data display

Display the read data or load data, include hex and ASCII format
5. Power configuration

Display the status of power (VCC, VPP, 12V), support change the voltage of VCC and VPP (The default voltage usually not need to change)

6. Special function options
Provide chips special function, for example parts of chips have read chip ID, set security, reset security etc .
7. Chip option
Select right option according to type,brand and chip
8. Option Information
Display parameter information of current option
9. Connection diagram button
Click on button, get the connection diagram of current chip
10. Adaptor Type
Display needed adaptor of current option
11. Operation Information
Display operation information and saved in "log.bin" file

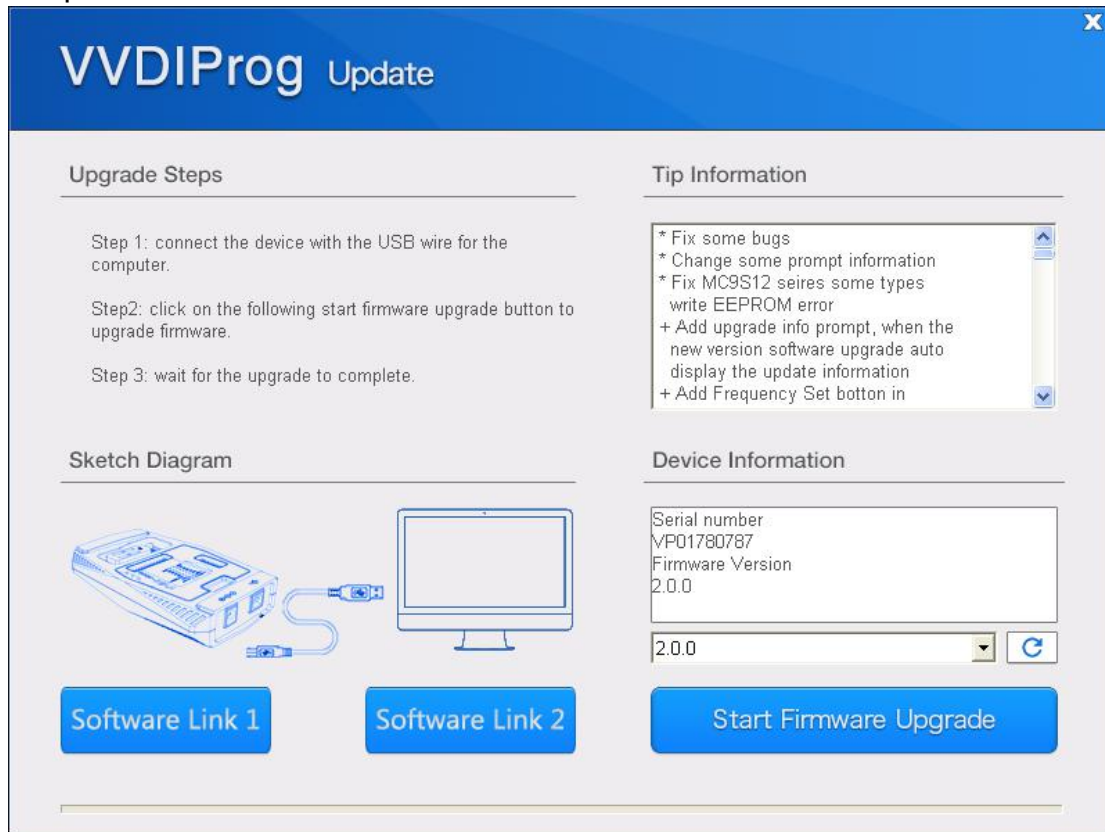
5.3. Driver installing

The driver install software saved in “driver” folder, include 2009 and 2016 version (recommend select 2009 version)



5.4. Online update

- ◆ This function require internet support
- ◆ Click the “Upgrade” button enter the upgrade interface, show as following picture



- ◆ Enter update interface, if software show “communication with server failed”, please close your Anti-virus and computer firewall and retry. If software show “unable to find equipment”, please reconnect device
- ◆ Tip information show the latest software version and upgrade information
- ◆ Device information show the device SN, device firmware version and the latest firmware version
- ◆ Firmware upgrade steps:
 1. Select the firmware version
 2. Click “Start Firmware Upgrade” button
 3. Don’t close or pull out USB cable before upgrade finished
- ◆ Software upgrade steps:
 1. Click “Software Link 1” or “Software Link 2” button, download software from the web
 2. Extract the file

6.Support Type List

6.1. MEMORY

MFERS	TYPE	SUPPORT	REMARK
ATMEL	AT24CXX	<input checked="" type="checkbox"/>	
	AT25XXX	<input checked="" type="checkbox"/>	
	AT93CX6	<input checked="" type="checkbox"/>	
CATALYST	CAT24C/WXX	<input checked="" type="checkbox"/>	
	CAT93CX6[A]	<input checked="" type="checkbox"/>	
EXEL	XL[S]24CXX	<input checked="" type="checkbox"/>	
	XL[S]93CX6	<input checked="" type="checkbox"/>	
FAIRCHILD	FM/NM24CXX	<input checked="" type="checkbox"/>	
	NM93CX6	<input checked="" type="checkbox"/>	
INTEL	PA28FXXX	<input checked="" type="checkbox"/>	Need TB28FXXX adaptor
	TB28FXXX	<input checked="" type="checkbox"/>	Need TB28FXXX adaptor
MICROCHIP	24AAXX	<input checked="" type="checkbox"/>	
	24[L]CXX	<input checked="" type="checkbox"/>	
	93C/LC/AA6A	<input checked="" type="checkbox"/>	6pin SOT23/8pin sop package
	93C/LC/AA6B	<input checked="" type="checkbox"/>	6pin SOT23/8pin sop package
	93C/LC/AA6C	<input checked="" type="checkbox"/>	
MITSUBISHI	M6M800X1	<input checked="" type="checkbox"/>	
ST	D80/D160	<input checked="" type="checkbox"/>	Support erase the first 32 bytes
	M24CXX	<input checked="" type="checkbox"/>	
	M95XXX	<input checked="" type="checkbox"/>	
	M93C/CSX6	<input checked="" type="checkbox"/>	
	ST24C/E/WXX	<input checked="" type="checkbox"/>	
	ST25C/EXX	<input checked="" type="checkbox"/>	
	ST95POX	<input checked="" type="checkbox"/>	
TOSHIBA	TC8910X	<input checked="" type="checkbox"/>	
XICOR	X24C01	<input checked="" type="checkbox"/>	

Notes: Already Support, Support Soon

6.2. MCU

MFRS	TYPE	SUPPORT	REMARK
RENESAS V850	D70F3231	<input checked="" type="checkbox"/>	
	D70F3232	<input checked="" type="checkbox"/>	
	D70F3233	<input checked="" type="checkbox"/>	
	D70F3234	<input checked="" type="checkbox"/>	
	D70F3235	<input checked="" type="checkbox"/>	
	D70F3236	<input checked="" type="checkbox"/>	
	D70F3237	<input checked="" type="checkbox"/>	
	D70F3238	<input checked="" type="checkbox"/>	
	D70F3239	<input checked="" type="checkbox"/>	
	D70F3333	<input checked="" type="checkbox"/>	
	D70F3334	<input checked="" type="checkbox"/>	
	D70F3335	<input checked="" type="checkbox"/>	
	D70F3336	<input checked="" type="checkbox"/>	
	D70F3340	<input checked="" type="checkbox"/>	
	D70F3341	<input checked="" type="checkbox"/>	
	D70F3342	<input checked="" type="checkbox"/>	
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	D70F3344	<input checked="" type="checkbox"/>	
	D70F3345	<input checked="" type="checkbox"/>	
	D70F3346	<input checked="" type="checkbox"/>	
	D70F3347	<input checked="" type="checkbox"/>	
	D70F3348	<input checked="" type="checkbox"/>	
	D70F3350	<input checked="" type="checkbox"/>	
	D70F3351	<input checked="" type="checkbox"/>	
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	D70F3357	<input checked="" type="checkbox"/>	
	D70F3358	<input checked="" type="checkbox"/>	
	D70F3364	<input checked="" type="checkbox"/>	
D70F3365	<input checked="" type="checkbox"/>		
D70F3366	<input checked="" type="checkbox"/>		

Notes: Already Support, Support Soon

MFRS	TYPE	SUPPORT	REMARK
RENESAS V850	D70F3367	<input checked="" type="checkbox"/>	
	D70F3368	<input checked="" type="checkbox"/>	
	D70F3370A	<input checked="" type="checkbox"/>	
	D70F3371	<input checked="" type="checkbox"/>	
	D70F3372	<input checked="" type="checkbox"/>	
	D70F3373	<input checked="" type="checkbox"/>	
	D70F3374	<input checked="" type="checkbox"/>	
	D70F3375	<input checked="" type="checkbox"/>	
	D70F3376A	<input checked="" type="checkbox"/>	
	D70F3377A	<input checked="" type="checkbox"/>	
	D70F3378	<input checked="" type="checkbox"/>	
	D70F3379	<input checked="" type="checkbox"/>	
	D70F3380	<input checked="" type="checkbox"/>	
	D70F3381	<input checked="" type="checkbox"/>	
	D70F3382	<input checked="" type="checkbox"/>	
	D70F3383	<input checked="" type="checkbox"/>	
	D70F3384	<input checked="" type="checkbox"/>	
	D70F3385	<input checked="" type="checkbox"/>	
	D70F3402	<input checked="" type="checkbox"/>	
	D70F3403	<input checked="" type="checkbox"/>	
	D70F3403A	<input checked="" type="checkbox"/>	
	D70F3416	<input checked="" type="checkbox"/>	
	D70F3417	<input checked="" type="checkbox"/>	
	D70F3421	<input checked="" type="checkbox"/>	
	D70F3422	<input checked="" type="checkbox"/>	
	D70F3423	<input checked="" type="checkbox"/>	
	D70F3424	<input checked="" type="checkbox"/>	
	D70F3425	<input checked="" type="checkbox"/>	
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	D70F3427	<input checked="" type="checkbox"/>	
	D70F3433	<input checked="" type="checkbox"/>	
	D70F3451	<input checked="" type="checkbox"/>	
D70F3452	<input checked="" type="checkbox"/>		
D70F3453	<input checked="" type="checkbox"/>		
D70F3454	<input checked="" type="checkbox"/>		
D70F3464	<input checked="" type="checkbox"/>		

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MFRS	TYPE	SUPPORT	REMARK
RENESAS V850	D70F3465	<input checked="" type="checkbox"/>	
	D70F3466	<input checked="" type="checkbox"/>	
	D70F3469	<input checked="" type="checkbox"/>	
	D70F3470	<input checked="" type="checkbox"/>	
	D70F3471	<input checked="" type="checkbox"/>	
	D70F3472	<input checked="" type="checkbox"/>	
	D70F3522	<input checked="" type="checkbox"/>	
	D70F3523	<input checked="" type="checkbox"/>	
	D70F3524	<input checked="" type="checkbox"/>	
	D70F3525	<input checked="" type="checkbox"/>	
	D70F3526	<input checked="" type="checkbox"/>	
	D70F3529	<input checked="" type="checkbox"/>	
	D70F3532	<input checked="" type="checkbox"/>	
	D70F3535	<input checked="" type="checkbox"/>	
	D70F3536	<input checked="" type="checkbox"/>	
	D70F3537	<input checked="" type="checkbox"/>	
	D70F3610	<input checked="" type="checkbox"/>	
	D70F3611	<input checked="" type="checkbox"/>	
	D70F3612	<input checked="" type="checkbox"/>	
	D70F3613	<input checked="" type="checkbox"/>	
	D70F3614	<input checked="" type="checkbox"/>	
	D70F3615	<input checked="" type="checkbox"/>	
	D70F3616	<input checked="" type="checkbox"/>	
	D70F3617	<input checked="" type="checkbox"/>	
	D70F3618	<input checked="" type="checkbox"/>	
	D70F3619	<input checked="" type="checkbox"/>	
	D70F3620	<input checked="" type="checkbox"/>	
	D70F3621	<input checked="" type="checkbox"/>	
	D70F3622	<input checked="" type="checkbox"/>	
	D70F3624	<input checked="" type="checkbox"/>	
	D70F3628	<input checked="" type="checkbox"/>	
	D70F3634	<input checked="" type="checkbox"/>	
D70F3700	<input checked="" type="checkbox"/>		
D70F3701	<input checked="" type="checkbox"/>		
D70F3702	<input checked="" type="checkbox"/>		
D70F3703	<input checked="" type="checkbox"/>		

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MFRS	TYPE	SUPPORT	REMARK
RENESAS V850	D70F3704	<input checked="" type="checkbox"/>	
	D70F3706	<input checked="" type="checkbox"/>	
	D70F3707	<input checked="" type="checkbox"/>	
	D70F3709	<input checked="" type="checkbox"/>	
	D70F3710	<input checked="" type="checkbox"/>	
	D70F3711	<input checked="" type="checkbox"/>	
	D70F3712	<input checked="" type="checkbox"/>	
	D70F3715	<input checked="" type="checkbox"/>	
	D70F3716	<input checked="" type="checkbox"/>	
	D70F3717	<input checked="" type="checkbox"/>	
	D70F3718	<input checked="" type="checkbox"/>	
	D70F3719	<input checked="" type="checkbox"/>	
	D70F3720	<input checked="" type="checkbox"/>	
	D70F3721	<input checked="" type="checkbox"/>	
	D70F3722	<input checked="" type="checkbox"/>	
	D70F3723	<input checked="" type="checkbox"/>	
	D70F3724	<input checked="" type="checkbox"/>	
	D70F3739	<input checked="" type="checkbox"/>	
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	D70F3741	<input checked="" type="checkbox"/>	
	D70F3742	<input checked="" type="checkbox"/>	
	D70F3743	<input checked="" type="checkbox"/>	
	D70F3744	<input checked="" type="checkbox"/>	
	D70F3745	<input checked="" type="checkbox"/>	
	D70F3746	<input checked="" type="checkbox"/>	
	D70F3778	<input checked="" type="checkbox"/>	
	D70F3779	<input checked="" type="checkbox"/>	
	D70F3780	<input checked="" type="checkbox"/>	
	D70F3781	<input checked="" type="checkbox"/>	
	D70F3782	<input checked="" type="checkbox"/>	
	D70F3783	<input checked="" type="checkbox"/>	
	D70F3784	<input checked="" type="checkbox"/>	
D70F3785	<input checked="" type="checkbox"/>		
D70F3786	<input checked="" type="checkbox"/>		
D70F3826	<input checked="" type="checkbox"/>		
D70F3827	<input checked="" type="checkbox"/>		

Notes: Already Support, Support Soon

MFRS	TYPE	SUPPORT	REMARK
RENESAS V850	D70F3828	<input checked="" type="checkbox"/>	
	D70F3829	<input checked="" type="checkbox"/>	
	D70F3834	<input checked="" type="checkbox"/>	
	D70F3835	<input checked="" type="checkbox"/>	
	D70F3836	<input checked="" type="checkbox"/>	
	D70F3837	<input checked="" type="checkbox"/>	
	D70F4177	<input checked="" type="checkbox"/>	
	D70F4178	<input checked="" type="checkbox"/>	
	D70F4179	<input checked="" type="checkbox"/>	
	D70F4180	<input checked="" type="checkbox"/>	

Notes: Already Support, Support Soon

MFERS	TYPE	SUPPORT	REMARK
RENESAS H8X	R5F61723	<input checked="" type="checkbox"/>	
	R5F61725	<input checked="" type="checkbox"/>	
	R5F61797	<input checked="" type="checkbox"/>	

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MFRS	TYPE	SUPPORT	REMARK
RENESAS R8C	R5F21546E	<input checked="" type="checkbox"/>	
	R5F21547E	<input checked="" type="checkbox"/>	
	R5F21548E	<input checked="" type="checkbox"/>	
	R5F2154AE	<input checked="" type="checkbox"/>	
	R5F2154CE	<input checked="" type="checkbox"/>	
	R5F21546F	<input checked="" type="checkbox"/>	
	R5F21547F	<input checked="" type="checkbox"/>	
	R5F21548F	<input checked="" type="checkbox"/>	
	R5F2154AF	<input checked="" type="checkbox"/>	
	R5F2154CF	<input checked="" type="checkbox"/>	
	R5F21546G	<input checked="" type="checkbox"/>	
	R5F21547G	<input checked="" type="checkbox"/>	
	R5F21548G	<input checked="" type="checkbox"/>	
	R5F2154AG	<input checked="" type="checkbox"/>	
	R5F2154CG	<input checked="" type="checkbox"/>	
	R5F21546H	<input checked="" type="checkbox"/>	
	R5F21547H	<input checked="" type="checkbox"/>	
	R5F21548H	<input checked="" type="checkbox"/>	
	R5F2154AH	<input checked="" type="checkbox"/>	
	R5F2154CH	<input checked="" type="checkbox"/>	

Notes: Already Support, Support Soon

MFRS	TYPE	SUPPORT	REMARK
MOTOROLA MC68HC (9) 08	MC68HC08AB16A_EEP	<input checked="" type="checkbox"/>	
	MC68HC08ASxx_EEP	<input checked="" type="checkbox"/>	加密可读写
	MC68HC08ASxxA_EEP	<input checked="" type="checkbox"/>	加密可读写
	MC68HC08AZxx_EEP	<input checked="" type="checkbox"/>	加密可读写
	MC68HC08AZxxA_EEP	<input checked="" type="checkbox"/>	加密可读写
	MC68HC908ABxx_EEP	<input checked="" type="checkbox"/>	加密可读写
	MC68HC908ASxx_EEP	<input checked="" type="checkbox"/>	加密可读写
	MC68HC908ASxxA_EEP	<input checked="" type="checkbox"/>	加密可读写
	MC68HC908AZxx_EEP	<input checked="" type="checkbox"/>	加密可读写
	MC68HC908AZxxA_EEP	<input checked="" type="checkbox"/>	加密可读写

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MFRS	TYPE	SUPPORT	REMARK
MOTOROLA MC68HC (9) 12	MC68HC12BC32	<input checked="" type="checkbox"/>	
	MC68HC12BE32	<input checked="" type="checkbox"/>	
	MC68HC912B32	<input checked="" type="checkbox"/>	
	MC68HC912BC32	<input checked="" type="checkbox"/>	
	MC68HC912BD32	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC912D60A	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC912DG128	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC912DG128A	<input checked="" type="checkbox"/>	Support R&W secured chip

Notes: Already Support, Support Soon

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MFRS	TYPE	SUPPORT	REMARK
MOTOROLA MC9S08	MC9S08AC	<input checked="" type="checkbox"/>	
	MC9S08AW	<input checked="" type="checkbox"/>	
	MC9S08DV	<input checked="" type="checkbox"/>	
	MC9S08EL	<input checked="" type="checkbox"/>	
	MC9S08FL	<input checked="" type="checkbox"/>	
	MC9S08GB	<input checked="" type="checkbox"/>	
	MC9S08GW	<input checked="" type="checkbox"/>	
	MC9S08GT	<input checked="" type="checkbox"/>	
	MC9S08JE	<input checked="" type="checkbox"/>	
	MC9S08JS	<input checked="" type="checkbox"/>	
	MC9S08LC	<input checked="" type="checkbox"/>	
	MC9S08LG	<input checked="" type="checkbox"/>	
	MC9S08LH	<input checked="" type="checkbox"/>	
	MC9S08LL	<input checked="" type="checkbox"/>	
	MC9S08MM	<input checked="" type="checkbox"/>	
	MC9S08MP	<input checked="" type="checkbox"/>	
	MC9S08QA	<input checked="" type="checkbox"/>	
	MC9S08QB	<input checked="" type="checkbox"/>	
	MC9S08QD	<input checked="" type="checkbox"/>	
	MC9S08QE	<input checked="" type="checkbox"/>	
	MC9S08QG	<input checked="" type="checkbox"/>	
	MC9S08RC	<input checked="" type="checkbox"/>	
	MC9S08RD	<input checked="" type="checkbox"/>	
	MC9S08RE	<input checked="" type="checkbox"/>	
	MC9S08RG	<input checked="" type="checkbox"/>	
	MC9S08SC	<input checked="" type="checkbox"/>	
	MC9S08SE	<input checked="" type="checkbox"/>	
	MC9S08SF	<input checked="" type="checkbox"/>	
MC9S08SG	<input checked="" type="checkbox"/>		
MC9S08SH	<input checked="" type="checkbox"/>		
MC9S08SL	<input checked="" type="checkbox"/>		
MC9S08SV	<input checked="" type="checkbox"/>		

Notes: Already Support, Support Soon

MFRS	TYPE	SUPPORT	REMARK
MOTOROLA MC9S12	MC9S12A	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12C	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12D	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12DB	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12DG	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12DJ	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12DP	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12DT	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12G	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12GA	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12GC	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12GN	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12HA	<input checked="" type="checkbox"/>	
	MC9S12HY	<input checked="" type="checkbox"/>	
	MC9S12HZ	<input checked="" type="checkbox"/>	Support R&W secured chip (3L16Y)
	MC9S12KG	<input checked="" type="checkbox"/>	Support R&W secured chip (2L33V)
	MC9S12KT	<input checked="" type="checkbox"/>	Support R&W secured chip (2L33V)
	MC9S12P	<input checked="" type="checkbox"/>	
	MC9S12XA	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12XB	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12XD	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12XDP	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12XDQ	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12XDT	<input checked="" type="checkbox"/>	Support R&W secured chip
	MC9S12XEA	<input checked="" type="checkbox"/>	Support R&W secured chip, auto detect data size
	MC9S12XEG	<input checked="" type="checkbox"/>	Support R&W secured chip, auto detect data size
	MC9S12XEP	<input checked="" type="checkbox"/>	Support R&W secured chip, auto detect data size
	MC9S12XEQ	<input checked="" type="checkbox"/>	Support R&W secured chip, auto detect data size
	MC9S12XET	<input checked="" type="checkbox"/>	Support R&W secured chip, auto detect data size
	MC9S12XHY	<input checked="" type="checkbox"/>	
MC9S12XHZ	<input checked="" type="checkbox"/>	Support R&W secured chip	
MC9S12XS	<input checked="" type="checkbox"/>		
MC9S12XF	<input checked="" type="checkbox"/>	Support R&W secured chip, auto detect data size	

Notes: Already Support, Support Soon

MFRS	TYPE	SUPPORT	REMARK
NXP PCF79XX	PCF7922	<input checked="" type="checkbox"/>	Need PCF79XX adaptor
	PCF7941	<input checked="" type="checkbox"/>	Need PCF79XX adaptor
	PCF7945	<input checked="" type="checkbox"/>	Need PCF79XX adaptor
	PCF7952	<input checked="" type="checkbox"/>	Need PCF79XX adaptor
	PCF7953	<input checked="" type="checkbox"/>	Need PCF79XX adaptor
	PCF7961	<input checked="" type="checkbox"/>	Need PCF79XX adaptor

Notes: Already Support, Support Soon

VVDI PROG

7.Support Model List

7.1. ECU

MFRS	TYPE	SUPPORT	REMARK
BMW E SERIES	MEVD17 (N55)	<input checked="" type="checkbox"/>	
	MEVD1724 (N20)	<input checked="" type="checkbox"/>	
	MEVD1726 (N55)	<input checked="" type="checkbox"/>	
	MEVD1729 (N20)	<input checked="" type="checkbox"/>	
BMW F SERIES	MEVD172 (N55)	<input checked="" type="checkbox"/>	
	MEVD1724 (N20)	<input checked="" type="checkbox"/>	
	MEVD1725 (N13)	<input checked="" type="checkbox"/>	
	MEVD1726 (N55)	<input checked="" type="checkbox"/>	
	MEVD1728 (N63/S63)	<input checked="" type="checkbox"/>	
	MEVD1729 (N20)	<input checked="" type="checkbox"/>	
	MEVD172G (N55)	<input checked="" type="checkbox"/>	
	MEVD172P (N20)	<input checked="" type="checkbox"/>	
MEVD172S (N55)	<input checked="" type="checkbox"/>		
BOMBARDIER	QUADROCYCLE (2011)	<input checked="" type="checkbox"/>	
CHANGAN	BENBEN MT20UED	<input checked="" type="checkbox"/>	
DELPHI	ME20U2-XET256	<input checked="" type="checkbox"/>	
	ME20U2-XET512	<input checked="" type="checkbox"/>	
	MT20U2-2L33V	<input checked="" type="checkbox"/>	
	MT20UED	<input checked="" type="checkbox"/>	
	MT22-XEP768	<input checked="" type="checkbox"/>	
	MT60-XEP768	<input checked="" type="checkbox"/>	
OTHER	XP8000E-XET256	<input checked="" type="checkbox"/>	

7.2. IMMOBILIZER

MFRS	TYPE	SUPPORT	REMARK
AUDI	BCM2	<input checked="" type="checkbox"/>	(D703379/F3381/3634)
	A4L-BCM	<input checked="" type="checkbox"/>	(1L15Y)
	J518 (--2010)	<input checked="" type="checkbox"/>	(1L59W/3L40K)
	J518 (2010--)	<input checked="" type="checkbox"/>	(0L01Y)
BENZ	EIS-W203	<input checked="" type="checkbox"/>	(HC08)
	EIS-W220	<input checked="" type="checkbox"/>	(HC08)
	EIS-W639	<input checked="" type="checkbox"/>	(HC08)
	EIZ-W203	<input checked="" type="checkbox"/>	(HC12)
	EIZ-W209	<input checked="" type="checkbox"/>	(HC12)
	EIZ-W211	<input checked="" type="checkbox"/>	(HC12)
	EIZ-W219	<input checked="" type="checkbox"/>	(HC12)
	EIZ-W220	<input checked="" type="checkbox"/>	(HC12)
	EIZ-W230	<input checked="" type="checkbox"/>	(HC12)
	EIZ-W164	<input checked="" type="checkbox"/>	(ST12)
	EIZ-W169	<input checked="" type="checkbox"/>	(ST12)
	EIZ-W203	<input checked="" type="checkbox"/>	(ST12)
	EIZ-W209	<input checked="" type="checkbox"/>	(ST12)
	EIZ-W211	<input checked="" type="checkbox"/>	(ST12)
	EIZ-W215	<input checked="" type="checkbox"/>	(ST12)
	EIZ-W219	<input checked="" type="checkbox"/>	(ST12)
	EIZ-W220	<input checked="" type="checkbox"/>	(ST12)
	EIZ-W221	<input checked="" type="checkbox"/>	(ST12)
	EIZ-W463	<input checked="" type="checkbox"/>	(ST12)
	EIZ Vaneo	<input checked="" type="checkbox"/>	(ST12)
EIZ MAYBACH	<input checked="" type="checkbox"/>	(ST12)	
EIZ SPRINTER (2015--)	<input checked="" type="checkbox"/>	(ST12)	
BMW	EWS4. X	<input checked="" type="checkbox"/>	
	CAS2	<input checked="" type="checkbox"/>	(2K79X/0L01Y)
	CAS3	<input checked="" type="checkbox"/>	(2K79X/0L01Y)
	CAS3+	<input checked="" type="checkbox"/>	(0L15Y/0M23S)
	CAS4	<input checked="" type="checkbox"/>	(1L15Y)
	CAS4	<input checked="" type="checkbox"/>	(5M48H/1N35H)
BUICK	EXCELLE BCM (2013--)	<input checked="" type="checkbox"/>	
	EXCELLE GT BCM (2013--)	<input checked="" type="checkbox"/>	
	EXCELLE (2014)	<input checked="" type="checkbox"/>	

MFERS	TYPE	SUPPORT	REMARK
CHEVROLET	NEW SAILBCM (2013--)	<input checked="" type="checkbox"/>	
STEC	STEC IMMOBILIZER	<input checked="" type="checkbox"/>	
CHRYSLER	300C	<input checked="" type="checkbox"/>	
FIAT	FIAT IMMOBILIZER	<input checked="" type="checkbox"/>	
FORD	BCM-7S7T	<input checked="" type="checkbox"/>	1L15Y
GREATWALL	DELPHI-IMMOBILIZER	<input checked="" type="checkbox"/>	
	H2-BCM	<input checked="" type="checkbox"/>	
INFINITI	BCM-XDT384	<input checked="" type="checkbox"/>	
	BCM-XEG384	<input checked="" type="checkbox"/>	
LANDROVER	RANGE ROVER EWS (2004-08)	<input checked="" type="checkbox"/>	
JAGUAR	SMARTKEY-OL01Y	<input checked="" type="checkbox"/>	
NISSAN	BCM-XDT384	<input checked="" type="checkbox"/>	
	BCM-XEG384	<input checked="" type="checkbox"/>	
OPEL	ASTRA DG128	<input checked="" type="checkbox"/>	
	ZAFIRA DG128	<input checked="" type="checkbox"/>	
	VECTRA (2004-08)	<input checked="" type="checkbox"/>	
PORSCHE	BCM-1L15Y	<input checked="" type="checkbox"/>	
	BCM-2M25J	<input checked="" type="checkbox"/>	
	BCM-5M48H	<input checked="" type="checkbox"/>	
	BCM-1N35H	<input checked="" type="checkbox"/>	
RENAULT	BCM-XDT384	<input checked="" type="checkbox"/>	
	BCM-XEG384	<input checked="" type="checkbox"/>	
	LAGUNA BCM (2010--)	<input checked="" type="checkbox"/>	
SAICMOTOR	MG7	<input checked="" type="checkbox"/>	
	ROEWE750	<input checked="" type="checkbox"/>	
VOLKSWAGEN	BCM-XEQ384	<input checked="" type="checkbox"/>	
	BCM2	<input checked="" type="checkbox"/>	(D703379/F3381/3634)

7.3. DASHBOARD

MFRS	TYPE	SUPPORT	REMARK
BUICK	EXCELLE (2010)	<input checked="" type="checkbox"/>	
	EXCELLE (2011-12)	<input checked="" type="checkbox"/>	
	EXCELLE (2013-15)	<input checked="" type="checkbox"/>	
	GL8-FIRSTLAND (2007)	<input checked="" type="checkbox"/>	
	LACROSSE (2008)	<input checked="" type="checkbox"/>	
CHANGAN	BENBEN	<input checked="" type="checkbox"/>	
	JINNIUXING	<input checked="" type="checkbox"/>	
	S35	<input checked="" type="checkbox"/>	
	YUEXIANG	<input checked="" type="checkbox"/>	
	CHANGAN-STAR-9	<input checked="" type="checkbox"/>	
	CS75 (2014)	<input checked="" type="checkbox"/>	
	RUIXING	<input checked="" type="checkbox"/>	
CHERY	ARRIZ07	<input checked="" type="checkbox"/>	
	ARRIZ0-M7	<input checked="" type="checkbox"/>	
	E5-3L16Y	<input checked="" type="checkbox"/>	
	NEW QQ	<input checked="" type="checkbox"/>	
CHEVROLET	CAPTIVA (2008)	<input checked="" type="checkbox"/>	
	CAPTIVA (2011)	<input checked="" type="checkbox"/>	
DONGFENG	VENUCIA R50 (2014)	<input checked="" type="checkbox"/>	
	XIAOKANG (2014)	<input checked="" type="checkbox"/>	
FAW	BESTURN-B50	<input checked="" type="checkbox"/>	
	BESTURN-B90 (2014)	<input checked="" type="checkbox"/>	
	BESTURN-X80 (2013)	<input checked="" type="checkbox"/>	
	JIEFANG (3L16Y)	<input checked="" type="checkbox"/>	
	VITA (2008)	<input checked="" type="checkbox"/>	
FORD	FOCUS (2005)	<input checked="" type="checkbox"/>	
	FOCUS (09-10)	<input checked="" type="checkbox"/>	
	KUGA (3L16Y)	<input checked="" type="checkbox"/>	
	MONDEO (2004-07)	<input checked="" type="checkbox"/>	
	MONDEO CHIA-X (2009)	<input checked="" type="checkbox"/>	
	S-MAX (2008)	<input checked="" type="checkbox"/>	
GEELY	YINGLUN (2012)	<input checked="" type="checkbox"/>	
GREAT WALL	C30 (2010)	<input checked="" type="checkbox"/>	
	H5-1M80F	<input checked="" type="checkbox"/>	
HAFEI	LOBO (2008)	<input checked="" type="checkbox"/>	

MFRS	TYPE	SUPPORT	REMARK
HAIMA	FAMILY (2011-13)	<input checked="" type="checkbox"/>	
HONDA	HONDA (2014-)	<input checked="" type="checkbox"/>	
JAC	S5	<input checked="" type="checkbox"/>	
JAGUAR	S-SEIRES	<input checked="" type="checkbox"/>	
JINBEI	JINBEI (2015)	<input checked="" type="checkbox"/>	
JMC	LANDWIND-X8	<input checked="" type="checkbox"/>	
LUXGEN	LUXGEN	<input checked="" type="checkbox"/>	
NISSAN	QASHQAI (2011)	<input checked="" type="checkbox"/>	
SGMW	BAOJUN330	<input checked="" type="checkbox"/>	
	BAOJUN730 (2015)	<input checked="" type="checkbox"/>	
	ROWE550	<input checked="" type="checkbox"/>	
	SGMW-HONGGUANG	<input checked="" type="checkbox"/>	
	SGMW-WULINGZHIGUANG	<input checked="" type="checkbox"/>	
VOLVO	C70 (2011)	<input checked="" type="checkbox"/>	
	S40 (2006-08)	<input checked="" type="checkbox"/>	
	S40 (2010)	<input checked="" type="checkbox"/>	
	XC60 (2012)	<input checked="" type="checkbox"/>	
	XC60 (2014)	<input checked="" type="checkbox"/>	
	XC60 (2016)	<input checked="" type="checkbox"/>	
ZHONGHUA	FSV (2010-)	<input checked="" type="checkbox"/>	
	V5 (2008)	<input checked="" type="checkbox"/>	
ZOTYE	Z300 (2013)	<input checked="" type="checkbox"/>	
	SR7	<input checked="" type="checkbox"/>	

7.4. REMOTE

MFRS	TYPE	SUPPORT	REMARK
BMW E SERIES	ORIGINAL 315	<input checked="" type="checkbox"/>	Need PCF79XX adaptor
	ORIGINAL 868	<input checked="" type="checkbox"/>	Need PCF79XX adaptor
	THIRD PARTY	<input checked="" type="checkbox"/>	Need PCF79XX adaptor
BMW F SERIES	315 REMOTE	<input checked="" type="checkbox"/>	Need PCF79XX adaptor
	433 REMOTE	<input checked="" type="checkbox"/>	Need PCF79XX adaptor
	868 REMOTE	<input checked="" type="checkbox"/>	Need PCF79XX adaptor

7.5. OTHER

MFRS	TYPE	SUPPORT	REMARK
BENZ	ISM-W221	<input checked="" type="checkbox"/>	
	LU-W221	<input checked="" type="checkbox"/>	
	SAM-W221	<input checked="" type="checkbox"/>	
BMW	FRM	<input checked="" type="checkbox"/>	(XEQ384)
ROVER	RFA	<input checked="" type="checkbox"/>	
VOLKSWAGEN	PASSAT B6-PBCM	<input checked="" type="checkbox"/>	