XP866+ USB ProGrammer manual

features

Product picture:



Field of application:

This programmer can read and write the bios chips of Router, LCD, Car, DVD, TV, PC, harddisk, etc.

Features:

- 1. USB 2.0 interface, the speed is 12Mbps.
- 2. The speed of reading and writing is fast.
- 3. Auto detect chip modles.
- 4. Auto select power votage.
- 5. Surpport 25 SPI FLASH, 24 EEPROM, 25 EEPROM, 93 EEPROM, 95 EEPROM.etc.
- 6. Small shape.
- 7. Windows2000, Windows XP, Windows Vista, Win7, Win8, WIN10.

List:

- 1. Programmer 1
- 2. Usb cable 1

- 3. CD 1
- 4. Manual (a file on CD) 1
- 5. Simple socket for SMD chips 2

driver setup

There are tow usb device driver files: installer_x64.exe or install_x86.exe

Run the "*.exe"; The step of usb driver setup is same as other usb devices.

If the automatic installation does not success(Eg:WIN8/WIN10), you can also choose to install USB driver from Device manager.



Right click---à update the driver, then chose "Browse my computer for driver software"



Cancel

1. Browse to the" ../XP866+/driver" file(copy the software from the CD to the computer first); And click the next.

	浏览文件夹	F
浏览计算机上的驱动程序文件	选择包含您的硬件的驱动程	序的文件夹。
在以下位置搜索驱动程序软件:	▲ 🎉 XP866+	*
E:\编程器软件\XP866+\driver 🗸 💦	11览(R) 4 📜 driver 🕘 .	
▼ 包括子文件夹(1)	amd64	
1	🍶 ia64	
	\mu x86	
	▲ 编程器8710v1 < _ Ⅲ	0011
	文件夹 (F): driver	
八丁异们山小反音池动村主子列表中达对年(L) 此列表将显示与该设备兼容的已安装的驱动程序软件,以及与该设备处于 所有驱动程序软件。		确定 取消
4		

2. Some computers may display the following prompt, please select "always install driver "



3. One of the following figures appears, indicating that the driver is installed



software setup

e(F) Sur	Her(B) Operation	(O) Device(Y) U	anguaga	(L) He	elp(H)							
in Say	Bead ERASE	Divide Verity AU				Sevice (About					
νp			001	0203	0405	0607	0809	OAOB	0000	DEOF	0123456789ABCDEF	
pe		0x00000	AC11	7787	3793	ACAC	B46E	CC12	FDSE	AAOE	w.7 nì.ý^*.	
M_HLASH	•	0x00010	F886	62A2	8151	CTOE	6DCA	0068	9099	8879	ø b¢ ±C.mÊ.h .v	
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me	10 B	0x00040	63BC	5895	996B	FAIR	2600	B63P	D828	A33A	CHX kú.sà¶?d(t:	
(25F80	•	0x00050	283C	EOE4		0505	2244	CA25	2193	P507	(<48.01DÊ61 0.	
	10	0x00060	44PD	8810	206D	3002	8620	DED4	855F	CF96	Dý . m0¶ ⊳ố ĭ	
Test	Find	0x00070	187C	A4C9	D410	D50A	0073	SEGE	1570	A85D	.1=±0.0	
		0x00080	4874	BSac	5673	SOPP	BESC.	F450	2618	3814	Han-Va P Alert	
e .	1M8 +	0x00090	8725	BADO	1865	38.25	6739	8847	4983	8582	O D. erong GIE *	
	10000	0x000x0	8820	2279	D2F4	F288	CR2A	4112	5300	COGE	- vòòò Ê*O stàn	
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P856+ USB Hig F) Buffer(B) P Save Save P P P P P P P P P P P P P	In sec.	0x00000	1000	4 PBD	2064	2F18	7EC3	472C	ASP1	355B	0H-1/ AG. #851	
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	State 1			1000	10.00							
	AUTO											

Software not need to install, please run the *.exe programm.

select chip

Open Save	Read ERASE
Chip Type	
SPI_FLASH	-
Manufacturer	
WINBOND	•
Name	
W25×10	•
Test	Find
Sine Lie	

1.User can select chip modle from "Type", "Manu" and "Chip" combox.

2.User can click "find" to select chip modle too.

3. If the chip is 25 series, you can click "test" the chip model

search chip

Chip Tupe	0001 0203 0405 0607 0809	OAOB OCOD
SPI FLASH	0x00000 FFFF FFFF FFFF FFFF FFFF	FFFF FFFF
Mapufacturer	0x00010 FFFF FFFF FFFF FFFF FFFF	FFFF FFFF
	Chip Select	23
Name	2	
W25X10 💌	Find 25Q64	
	Type Manufacturer Name	
Test Find	SPI_FLASH EON EN25Q64	
Size 128KB	SPI_FLASH GIGADEVICE GD23064 SPI_FLASH WINBOND W25064	Select
	SFI_FLASH WINDUND W23Q64FW	
Pagesize 256		
Speed 12MHz 💌		
Auto Options		12
		Quit
✓ Erase		
D. Durana		

Click "find", then pop the above dialog, enter the keyword, the matched chips will be listed in the listbox.

detect chip



Click "Test", the software will pop a messagebox to show chip name.

The programmer only can detect 25 series spi flash.

Note: Some 8M or more chips are detect ID unstable. recommended to select the chip manually. In addition, if some errors when reading and writing, please to lower the speed(see the picture below).

File(F) Buffer(B) Operation(O) Language(L) Help(H)
Open Save Read ERASE	Write Verify AUTO
Chip	0001 0203 0405 0607 080
	0x00000 FFFF FFFF FFFF FFFF FFF
	0x00010 FFFF FFFF FFFF FFFF FFF
Manuracturer	0x00020 FFFF FFFF FFFF FFFF FFF
IEUN 🗾	0x00030 FFFF FFFF FFFF FFFF FFF
Name	0x00040 FFFF FFFF FFFF FFFF FFF
EN25F80	0x00050 FFFF FFFF FFFF FFFF FFF
	0x00060 FFFF FFFF FFFF FFFF FFF
Test Find	0x00070 FFFF FFFF FFFF FFFF FFF
	0x00080 FFFF FFFF FFFF FFFF FFFF
Size 1MB 👻	0x00090 FFFF FFFF FFFF FFFF FFF
	0x000A0 FFFF FFFF FFFF FFFF FFF
Pagesize 256	0x000B0 FFFF FFFF FFFF FFFF FFF
Speed	0x000C0 FFFF FFFF FFFF FFFF FFF
	0x000D0 FFFF FFFF FFFF FFFF FFF
Auto Options 6MHz	0x000E0 FFFF FFFF FFFF FFFF FFF
3MHz	0x000F0 FFFF FFFF FFFF FFFF FFF
	0x00100 FFFF FFFF FFFF FFFF FFF

open file

		015 055 mgn					
	File(F)	Buffer(B) O					
	Open	Save Read					
lick" OPEN ",	Tupe		or				
File(F) Buffer(B)	Operation	(O) Device(Y)	Langua	ige(L)	Help(H))	
Open(O)		🗻 📖	2			10	65
Save(S)			2	-			9
Quit(Q)	ERASE	Write Verify /	AUTU	Bank	FII	Device	Abou
Type	_		0001	0203	0405	0607	080
SPI_FLASH		0x0000	FFFF	FFFF	FFFF	FFFF	FFF
Manufacturer		0x0010	FFFF	FFFF	FFFF	FFFF	FFE
SST	-	0x0020	FFFF	FFFF	FFFF	FFFF	FFF
Name		0x0030	FFFF	FFFF	FFFF	FFFF	FFF
COTOD/CE104		0x0040	FFFF	FFFF	FFFF	FFFF	FFF
155125VF512A	-	0x0050	FFFF	FFFF	FFFF	FFFF	FFF
[- 1	0x0060	FFFF	FFFF	FFFF	FFFF	FFF
Test	Find	0x0070	FFFF	FFFF	FFFF	FFFF	FFF
		0×0080		PPPP			-

Load data to buffer from a bin file or a hex file.

save file

	File(F) Buffer(B) Operation(O) Device(Y)	Languag	e(L) I	Help(H)
	Open(O)	e. 🔊	81	I	
	Save(S)	Vite Vertu		Bank	FII
	Quit(Q)		001 (0203	0405
	Type	0x0000	FFFF I	FFFF	FFFF
	ISM_FLASH	0,0010	FFFF I	FFFF	FFFF
	Manufacturer	0x0020	FFFF I	FFFF	FFFF
	ISST 👤	0x0030	FFFF I	FFFF	FFFF
	Name	0x0040	FFFF I	FFFF	FFFF
	SST25VF512A 🔹	0x0050	FFFF I	FFFF	FFFF
		0x0060	FFFF I	FFFF	FFFF
•	Test Find	0x0070	FFFF I	FFFF	FFFF
51 (D D (((D) O		0x0080	FFFF I	FFFF	FFFF
File(H) Buller(B) O	Size 64KB 👻	0x0090	FFFF I	FFFF	FFFF
		0x00x0	FFFF 1	FFFF	FFFF
	Pagesize 256	0x00B0	FFFF I	FFFF	FFFF
Open Save Bead	Speed In Date	0x0000	FFFF I	FFFF	FFFF
CI:	1.5MHz	0x00D0	FFFF I	FFFF	FFFF
Lune 01	Auto Options	0.00000	-		

Save data to a bin file from buffer.

Edit code

8	0x00020	FFFF	FFFI						
į.	0x00030	FFFF	FFFI						
8	0x00040	FFFF	FFFI						
2	0x00050	FFFF	FFFI						
1	0x00060	FFFF	FFFI						
8	0x00070	FFFF	FFFI						
2	08000x0	FFFF	FFFI						
8	0x00090	FFFF	FFFI						
35	0x000x0	FFFF	AACD	EFFF	FFFF	FFFF	FFFF	FFFF	FFFI
i.	0x000B0	FFFF	FFFI						
3	0x000C0	FFFF	FFFI						
2	0x000D0	FFFF	FFFI						
1.	0x000E0	FFFF	FFFI						
3	0x000F0	FFFF	FFFI						
39	0x00100	FFFF	FFFI						

User can change data in buffer.

erase chip

25 spi flash must be erased before writing.

Other chips can be overwritten without erasing. **read chip**

Read data to buffer from chip.

write chip

Write data to chip from buffer, but Load data before writing.

verify chip

Compare the data in chip to the data in buffer.

It's necessary to execute the verify command after writing and reading.

File(F)	Buffer(B) Op	eration(0) De	evice(Y)	La	angua	age	e(L) H	elp(H)	
Open	Save	Read	ERASE	B Write	Verify	AL	S JTQ	E	Jank (FII	Device
Chip							04.0	1	0203	0405	5 060
гуре	ACH			0	x0000	00	8A.	4	89BF	5165	6 6 E (
SFI_FL	Арн		<u> </u>	0	x0001	LO	6A9	:	A2C4	F9F2	2 E98
Manura	icturer		-	0	x0002	20	B3B	E	A816	9700	5 BE
EUN				C	x0003	30	CD0	в	C86E	E0C5	5 EDH
Name				0	x0004	10	5D1	8	73C8	CC12	в в 38
EN25F	80		-	0	x0005	50	4CB	7	5860	9110) 91H
			1	0	x000e	50	BFF	в	65AF	A862	2 450
T	est	Fi	nd	0	x0007	70	1F3	7	CA71	CGEZ	A CEH
				0	3000x	30	12F	F	F5A2	E3CI	0 6C
Size	1MI	В	-	0	x0009	90	7F2	4	957B	3661	9D5
Pagesiz				0	x000Z	10	8DB	в	9A79	3660	2 1F(
i ayesiz	256)		0	x000E	30	A31	6	3255	9AAB	E F30
Speed	121	4Hz	T	0	x000c	:0	68C	7	CD0B	5856	5 581
	1			0	x000I	00	C3A	3	19D7	ASC	CB
-Auto Op	ptions			0	x000E	20	DBB	D	0632	02A4	001
				0	x000E	PO	176	6	C2D9	1AD(100
	🔽 Era	se		0	x0010	00	1F3	2	BDC5	EAGE	375
				0	x0011	LO	D8F	5	A533	A8E1	DD4
	🔽 Pro	gram		0	x0012	20	6BC	1	699C	CACE	B CET
				004.			10+01	-			
	🔽 Ver	ifu		003:1	Read Co)mp]	lete!				
		·	/	002:1	AUTO Co	mpl	lete!				
	AUT	·o /		001:	The pro	ogra	anner	i	s dete	ected,	and t
State		Ready	U	se time	e 00:0	00:3	4	-			

Auto: Burn chip (Erase, write and verify).

Erase, write and verify.

Oper	Save	Read ERASE	Write Verify	AUTO	Bank	FIII Devic	About							
Chip Ty	Chip Editor				0202	0405 06	07 00	NG NN ND	0000 0	<u> 010</u>	2456700			23
Ма	芯片类型	芯片厂家	芯片型号	芯片ID	FLASH	FLASH页	类型	子类型	延时	工作电压	EEPROM	EEPROM页	关联XML	<u>^</u>
EC	SPI_FLASH	AMIC	A25L05PU	0x372010	65536	256	0	0	1000	0	0	1	0	
Na	SPI_FLASH	AMIC	A25L05PT	0x372020	65536	256	0	0	300	0	0	1	0	
EN	SPI_FLASH	AMIC	A25L10PU	0x372011	131072	256	0	0	300	0	0	1	0	
	SPI_FLASH	AMIC	A25L20PU	0x372012	262144	256	0	0	300	0	0	1	0	
	SPI_FLASH	AMIC	A25L20PT	0x372022	262144	256	0	0	300	0	0	1	0	
Siz	SPI_FLASH	AMIC	A25L512	0x373010	65536	256	0	0	300	0	0	0	0	
Pa	SPI_FLASH	AMIC	A25L010	0x373011	131072	256	0	0	300	0	0	0	0	
So	SPI_FLASH	AMIC	A25L020	0x373012	262144	256	0	0	500	0	0	0	0	
	SPI FI ASH Confia	аміг	625I 40P	Nv372013	65536	256	n	Π	1000	n	n	n	n	
Au	Туре	SPI_FLASH	•	Class	25 flash	乏 제	Ţ	Voltage	331/	•	EEPROM	28		•
	Manufacti	urerAMIC	•	FLASH	64B			Algorithm	≇SST SPI	flash 🔻	EEPROM p	ag 4		-
	Name A25L05PU 💌			FLASH Pa	age 1		Ī	Chip ID	0	-	Extend			-
	Delay	100			100							,		
		Delete			Add		Ec	jit		Save		Quit]	

Device(You can add chips do yourself):

Type: there are 5 kinds (25 SPI flash, 24 EEPROM,25 EEPROM,93 EEPROM, 95 EEPROM.) Manufacturer: refers to the chip manufacturer

Name: Chip name.

Delay: the buffer time of this chip in sequential operation is generally 1000ms, which varies according to different chips. For the same type and same capacity, please refer to the chips in the list

Class: which kind does the chip belong to.

Flash: refers to the chip capacity.

Flash page: the operation chip has page size, which varies according to different chip page size.(find from Chip data manual.pdf)

Working voltage: there are three kinds of chip operating voltages: 5V, 3.3V and 1.8V.

Individual 1.8V chips need to borrow 1.8V adapter when reading and writing

Algorithm: different chip algorithms are different. Note: SST chip algorithm should be specified **Chip ID:** 24, 93, 25 EEPROM and 95 EEPROM have no ID, 25 SPI FLASH chips have

corresponding ID number;(find from Chip data manual.pdf).

With the chip ID number, the chip can be detected

EEPROM: 25 series chips fill in 0b by default; 93 / 24 / 25eeprom / 95eeprom chips fill 2B by default

EEPROM page: fill in 1 by default;

Extended association: fill in 0 by default

Button:

Delete: select a chip in the chip list and delete

Add: fill in the chip model in the configuration, and then click Add

Edit: Select a chip in the chip list, then edit it in the configuration, finally click" Edit" to save it

Save: after clicking Add or edit, click Save to the software;

Exit: Click to exit the current dialog box.

FAQ

1. Verify error.

(1)User must select a correct chip modle before writting.

(2)User must erase chip before writting if che chip is a 25 flash.

(3)User must select a correct memory unit width if che chip is a 93 eeprom.

(4) The chip maybe bad.

2. Chip position when reading and writting.

(1) If the programmer is linked to PC, the chip must be placed in the socket as below:

3. Automatically detect chip modle unsuccessful.

See the section "detect chip" in this document.

4. The simple SMD socket.

There are two positions on the simple patch adapter, which are connected in parallel. When in use, you can choose any position, but do not weld two chip at the same time.

5.Brush BIOS chip online with clip.

With clips, some mainboards can be used, but most mainboards need to be removed. If the chip is not removed on the board, it will be disturbed by the peripheral circuit, the voltage will be pulled down and will not work, and the chip timing is disordered;

1. Try to ground the two crystal oscillators of the main control CPU to make it inoperative.

- 2. Disconnect the peripheral circuit next to the chip.
- 3. If not, it is recommended to remove the chip from the board.