



Vonino

Zun XS Firmware Upgrade Procedure



1. What you will need:



Zun XS

PC

- Driver
- Firmware writing software, SP Flash Tool.
- IMEI writing software.
- Firmware.
- Personal computer that runs Windows 7 or a later operating system.
- Data cable.



2. Precautions:

- The device should have at least 30% battery charge.
- It is recommended that all personal information (pictures, videos, music, other files) be saved as the firmware upgrade procedure wipes the internal memory of the device.
- The software version presented in this document is just for the purpose of exemplifying.
 Use the firmware for your particular device and check that it is the latest version for your device.
- The device will not be usable during the firmware upgrade procedure.
- **DO NOT DISCONNECT** your Vonino device during the firmware upgrade procedure.

3. Driver Installation

- a. Download the MTK Driver Auto Installer.zip from the Vonino Support site: <u>http://ftp.vonino.org/public/Firmware/01_GENERAL_DRIVERS_FOR_MTK/</u>;
- b. Unzip MTK Driver Auto Installer.zip;
- c. Run the Mediatek-Drivers-Install.bat program and follow the on-screen commands.



4. Installing the Firmware

- a. Download the latest firmware version from: <u>ftp://ftp.vonino.org/public/Firmware/02_GENERAL_FLASH_KIT/</u>
- b. Download the <u>SP-Flash-Tool-v5.1532.00.rar</u> program in order to write the firmware. <u>http://ftp.vonino.org/public/Firmware/02_GENERAL_FLASH_KIT/</u>
- c. Unzip the SP-Flash-Tool-v5.1532.00.rar archive.
- **d.** Run the **flash_tool.exe** executable from the directory in which you unzipped the archive for SP Flash Tool.

Smart Phone Flash Tool(Runtime Tr	ace Mode)	-		×
Elle Options Window Help	Welcome Format Download Readback Memory Test			
	Download Stop Download-Agent C:\sp-Flash-Tool-v5.1532.00\/MTK_AllInOne_DA.bin Scatter-loading File	Downline Contract Con	oad Agen er-loading	ıt
MediaTek	Download Only Image: Control of the second sec			
	0% 0 B/s 0 Bytes High Speed 0:00			



e. Select 1.Format All + Download from the drop-down menu, click on 2.Scatterloading and choose the 3.MT6753_Android_scatter.txt file from the directory where you unzipped the firmware, press **Open**.

🧧 Smart Pho	ne Flash Too	ol(Run	time Tra	ce Mode)						-		×
<u>File</u> Options	<u>W</u> indow	<u>H</u> el	р										
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					-	_							
BM				Do	wnload	Stop							
													51
				Downlo	oad-Agent	C:\tool\SP Flash	Tool v5.1	516\MTK_AllInOne	DA.bin		E Dow	inload Ager	nt
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				\square	boot	0x000000001d8	0x0 0x0	0000000250fd27	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\boo	t.img		
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Ē		Ð			logo	0x000000003d8	0000 0x0	00000003eb59ff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\logo	o.bin		
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					tee1	0x00000000600	0000 0x0	00000000600ebff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\trus	tzone.bin		
					tee2	0x00000000650	0000 0x0	00000000650ebff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\trus	tzone.bin		
					system	0х000000000000000	0000 0x0	000000081a968db	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\syst	em.img		
					cache	0x0000000b100	0x0 0x0	0000000b180012f	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\cac	he.img		
					userdata	0x0000000ca00	0x0 0x0	0000000cba8624f	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\user	rdata.img		
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ATTENTION!! You should always choose FORMAT + DOWNLOAD.



🧧 Open Scatter File			×
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📌 Quick access	Name	Date modified Type	Size 10 KP
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This PC Network			
File <u>r</u>	ame: MT6735M_Android_scatter.txt	→ Map File	e (*.bxt) V en Cancel

f. Press the **1.Download** button:

Options Window Help								
	W <u>e</u> lcom	e Form <u>a</u>	t <u>D</u> ownload <u>R</u> ea	adback Memory Test	:			
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		lk	0x000000001c80000	0x000000001cc7d6f	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\lk.bin		
		boot	0x000000001d80000	0x00000000250fd27	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\boot.i	mg	_
		recovery	0x000000002d80000	0x0000000035d452b	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\recove	ery.img	
		logo	0x000000003d80000	0x000000003eb59ff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\logo.b	in	
		secro	0x000000005200000	0x000000005220fff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\secro.	img	
		tee1	0x000000006000000	0x000000000600ebff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\trustzo	one.bin	_
		tee2	0x000000006500000	0x00000000650ebff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\trustzo	one.bin	
		system	0x00000000b000000	0x000000081a968db	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\system	n.img	_
		cache	0x0000000b1000000	0x0000000b180012f	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\cache	.img	
		userdata	0x00000000ca000000	0x00000000cba8624f	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\userda	ita.img	
[

- g. Power down the phone and connect it through the data cable to the computer.h. The firmware writing process will begin.



Smart Phone Fl	ash Tool	(Runtim	e Trace Mo	ode)					-		×
ile <u>O</u> ptions <u>W</u>	(indow	<u>H</u> elp									
			Welc	ome Form <u>a</u>	t <u>D</u> ownload <u>R</u> ea	adback Memory Test					
					0						
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									_	_	
			Dov	wnload-Agent	C:\tool\SP Flash Tool	v5.1516\MTK_AllInOne_	DA.bin		Dowr	iload Agen	/t
			Sca	tter-loading File	C:\Zun Xs\vonino_v1.	1.15_20161010\MT6735	iM_Android_scatter	:txt 👻	Scatt	ter-loading	
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MT6 7	735	5M		Name	Begin Address	End Address	Region	Location			
				preloader	0x000000000000000000000000000000000000	0x000000000001cfa3	EMMC_BOOT_1	C:\Zun Xs\vonino_v1.1.15_20161010\preloa	der_aeon6	735m	
				lk	0x000000001c80000	0x000000001cc7d6f	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\lk.bin			
				boot	0x000000001d80000	0x00000000250fd27	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\boot.ir	ng		
				recovery							
		C∳		logo	0x000000003d80000	0x000000003eb59ff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\logo.b	n		
_		_		secro	0x000000005200000	0x000000005220fff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\secro.i	ng		
				tee1	0x000000006000000	0x000000000600ebff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\trustzo	ne.bin		
🔰 Chip Info			_	tee2	0x000000006500000	0x00000000650ebff	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\trustzo	ne.bin		
Chin Name:	476725	4 600	▲	system	0x000000000b000000	0x0000000081a968db	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\system	.img		
Chip Vanies	0.0000	1_300		cache	0x0000000b1000000	0x0000000b180012f	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\cache.	mg		
Chip version:	0x0000	cauu		userdata	0x00000000ca000000	0x00000000cba8624f	EMMC_USER	C:\Zun Xs\vonino_v1.1.15_20161010\userda	ta.img		
Ext Clock:	EXT_26	м									
Extern RAM Type:	DRAM										
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🛞 EMMC Flash				0.0014/	70 004	Change -	Download Flash	3%	and and the	010)	
ege chang hidan			_	9.33M/s	76.62M	EMMC	igh Speed	0:14 MediaTek PreLoader USB VCOM (/	Indroid) (O	OM8)	

i. The firmware writing process is over when the following pop-up appears:



After the firmware writing process is completed you must also write the IMEI series of the device and it's Wi-Fi and Bluetooth physical addresses (MAC).



- 5. Writing the IMEI series and the Wi-Fi, Bluetooth physical addresses.
 - a. Download the following program <u>SN_Write_tool_exe_v1.1516.00.rar</u> in order to write the IME and physical addresses from: <u>ftp://ftp.vonino.org/public/Firmware/02_GENERAL_FLASH_KIT/</u>
 - b. Unzip the archive and run SN Writer.exe located in the SN_Write_tool_exe_v1.1516.00\Output folder from the unzip location.

c. From the **ComPort** drop down select **USB VCOM** and from the **Target Type** drop down select **Smart Phone.**

ComPort: USB VCOM 🗾	Total:
arget Type: Smart Phone	Pass:
System Config	Fail:
Quit	Start



ComPort:		Engineer Operator	> > ~	Swit Cha Enal Enal	ch to Ope nge Passw ble AutoGe ble Check	rator d :n BtWifi	
arget Type:	Smart Phon	e 🗸			Pass:		-
	System Confi	9			Fail:		
Quit	1						Start

d. Select Identify>Engineer>Enable AutoGen

e. Check the Wi-Fi checkbox and press Ok;



Bar	code 🗆 IMEI 🗆 BT 🛛 🖡	Z Wifi	Ethernet DRMKey MCID
Barcoc	ie	IMEI	
Start:	1234	Start:	123456789100000
End:	40000000000000	End:	223456789200000
Ne×t:	30ed	Ne×t:	12346000000269
Step:	1 - C Denary	Step:	1 _
BT Ado	Iress	-Wifi Ac	ldress
Start:	123456789A00	Start:	10720D39012A
End:	223456789A01	End:	70720D39012C
Next:	123456789a16	Next:	20720d390144
Step:	1 -	Step:	2 •
Ethern	et Mac Address	DRMK	ey MCID
Start:	11111111111	Start:	111111111111111111111111111111111111111
End:	22222222222	End:	222222222222222222222222222222222222222
Next:	123460000002	Ne×t:	111111111111111111111111111111111111111
Step:	1 _	Step:	1 -

f. Press on the **System Config** button.

SN Writer	
Option Hdcp_DRMKey Identify Help	
ComPort: USB VCOM	Total:
Target Type: Feature Phone	Pass:
System Config	Fail:
Quit	Start



g. In the Write Option list check the IMEI and Wifi Address checkboxes. In the IMEI Option list only check IMEI CheckSum and Dual IMEI.

Sys	stem Config			×
	Write Option	-Header Option		
	🗆 Barcode	Barc Header	1234	
	🗹 imei	Dare fielder.		L Ongon
	🗆 BT Address	BT Header:		🗆 On/Off
	🗹 Wifi Address			
	🗖 Wifi EPPCopy	Wifi Header:		🗆 On/Off
	🗆 Ethernet Mac Address		100	— • •• ••
	DRMkey MCID	IMCI_I Heauer.	123	
	,	IMEL 2 Header		□ 0.v/0#
		Intel_c riodaon]	
	- IMEL Option	IMEI_3 Header:		□ On/Off
		IMEI_4 Header:		🗆 On/Off
	✓ Dual IMEI ☐ DualIMELSame			
	Three IMEI	Serial Header:	123	□ On/Off
	Four IMEI	Ethernet Meeder	122	E 0-20#
	CurTemperature	Eulernet neauer.	123	L OIIJOII
		MCID Header:	123	☑ On/Off
	LUIJ		,	
[DataBase File			
	MT6735_S00_MOLY_LR9_W1	444_MD_LWTG_MF	P_V90_P1_1_lwg_	MD1_DB
	D:\bin\95\k95\2 1[deda_op01	Barc Header: 1234 0n/Off Address BT Header: 0n/Off Address Wifi Header: 0n/Off EPPCopy IMEI_1 Header: 123 Imel_1 Header: 123 0n/Off Imel_2 Header: 0n/Off Imel_3 Header: 0n/Off Imel Imel_4 Header: Imel 0n/Off Imel Serial Header: Imel 123 Imel 0n/Off Imel Serial Header: Imel 0n/Off Imel Ethernet Header: Imel 123 Imel Imel Imel Ethernet Header: Imel Imel Imel Imel <t< th=""></t<>		
	[e-minaakaake_i[gaga_ohoi	1_951 0100 1000 1100		
	C:\!VONINO\SOFT\Zun XS\32 I	o1\vonino_v1.1.15_2	0161010\APDB_N	AP_DB
L				
		Save		
		a second s		



h. From the DataBase File section, press the **MD1_DB** button. Navigate to the location of your firmware folder and upload the file starting with BPLGUI for example:

BPLGUInfoCustomAppSrcP_MT6735_S00_MOLY_LR9_W1444_M D_LWTG_MP_V90_P1_1_lwg_n

System Config			>
Write Option	Header Option		
Barcode	Barc Header:	1234	🗆 On/Off
	PT Header		E 05/0#
✓ Wifi Address	Di licauci.	J	
🗆 Wifi EPPCopy	Wifi Header:		🗆 On/Off
🗆 Ethernet Mac Address	IMEI 1 Header:	123	□ 0n/Off
	_	J	in out on
	IMEI_2 Header:		🗆 On/Off
IMEI Option	IMEI_3 Header:		□ 0n/0ff
🗆 IMEI Lock	IMEL 4 Header:		
 ✓ Dual IMEI ☐ DualIMEI Same ☐ Three IMEI 	– Serial Header:	123	□ On/Off
Four IMEI	Ethernet Header:	123	□ 0n/Off
20.3 iæ	MCID Header:	123	☑ On/Off
DataBase File			
MT6735_S00_MOLY_LR9_W	/1444_MD_LWTG_M	P_V90_P1_1_lwg	n MD1_DB
D:\bin\95\k95v2_1[dsda_op()1]_ALPS.KK1.MP11.j	p59_eng\BPLGUIr	nfo MD2_DB
C:\!VONINO\SOFT\Zun XS\32	b1\vonino_v1.1.15_3	20161010\APDB_	M1 AP_DB
	Save		



🛃 Select M	odem_1 database file		×
Look in:	vonino_v1.1.15_20161010	수 🗈 📸 🖬 🔻	
Name	^	Date modified	^
APDB_N	1T6735_S01_alps-mp-m0.mp1_W16.38	10/10/2016 8:33 AM	
boot.im	q	10/10/2016 8:32 AM	
BPLGUIr	nfoCustomAppSrcP_MT6735_S00_M	10/10/2016 8:33 AM	
🔊 cache.in	ng	10/10/2016 8:32 AM	
file_cont	texts	10/10/2016 8:32 AM	~
<		>	
File <u>n</u> ame:	BPLGUInfoCustomAppSrcP_MT6735_S0	0_MOI Open	
Files of type:	Database files(*.*)	▼ Cancel	
	Open as read-only		

i. Press the AP_DB button navigate to the location of your firmware folder and upload the file starting with APDB for example: APDB_MT6735_S01_alps-mp-m0.mp1_W16.38

System Config			>
Write Option Barcode	Header Option		
	Barc Header:	1234	□ On/Off
BT Address	BT Header:		□ On/Off
Wifi EPPCopy	Wifi Header:		🗆 On/Off
 Ethernet Mac Address DRMkey MCID 	IMEI_1 Header:	123	🗆 On/Off
	IMEI_2 Header:		🗆 On/Off
IMEI Option IMEI CheckSum	IMEI_3 Header:		□ On/Off
	IMEI_4 Header:		□ 0n/0ff
✓ Dual IMEI ☐ DualIMEI Same ☐ Three IMEI	Serial Header:	123	□ On/Off
🗖 Four IMEI	Ethernet Header:	123	□ 0n/0ff
CurTemperature	MCID Header:	123	☑ On/Off
DataBase File MT6735_S00_MOLY_LR9_W1 D:\bin\95\k95v2_1[dsda_op01	444_MD_LWTG_MI	P_V90_P1_1_lwg 059_eng\BPLGUIr	_n MD1_DB
C:{Zun Xs\vonino_v1.1.15_20161010\APDB_MT6735_S01_alps-mp-n AP_DB			
Save			



Select AP database file			×		
Look in:	vonino_v1.1.15_20161010	+ 🗈 (* 🎟 🔻		
Name	^	Date mod	dified	^	
APDB_MT6735_S01_alps-mp-m0.mp1_W16.38		10/10/20	10/2016 8:33 AM		
boot.img		10/10/2016 8:32 AM			
BPLGUInfoCustomAppSrcP_MT6735_S00_M		10/10/2016 8:33 AM			
Cache.img		10/10/2016 8:32 AM			
file_contexts		10/10/20	16 8:32 AM	¥	
<			>		
File <u>n</u> ame:			<u>O</u> pen		
Files of type:	Database files(*.*)	•	Cancel		
	Open as read-only				

j. After selecting the MD1_DB and AP_DB databases press Save.

MT6735_S00_MOLY	'_LR9_W1444_MD_LWTG_MP_V90_P1_1_lwg_t	MD1_DB
D:\bin\95\k95v2_1[d	lsda_op01]_ALPS.KK1.MP11.p59_eng\BPLGUInfo	MD2_DB
C:\Zun Xs\vonino_v1.1.15_20161010\BPLGUInfoCustomAppSrcP_MT		



k. Press the Start button and in the following pop-up window write the IMEI_1 and IMEI_2 values located on the sticker from the back of the phone (under the battery), after this press the OK button.

SN Writer File Option	Hdcp_DRMKey Identify Help		×
ComF	Port: USB VCOM 🔹	Total:	
Target Ty	vpe: Smart Phone 💌	Pass:	
Scan Data		×	
	Data:	Header:	
IMEL 11	35xxxxxxxxxxxxxx		
	J		
	ar		
IMEI_2:	322000000000000000000000000000000000000	_	Start
			A CONTRACTOR OF THE OWNER OF THE
Wifi Addr:	20720d390144		
IMEI_1 = '''' 15 only!	,Only when enable checksum, ime	i length can be 14 or	
	Cancel	OK	



I. After the **IMEI/Wi-Fi/Bluetooth** writing process has finished a green **PASS** will appear.

9	Scan Data			\times	
SN Writer	IMEI_1:	Data:	Header:	F	×
File Option H	IMEI_2:				
ComPc	Wifi Addr:	20720d390146]		
Target Tyr	IMEI_1 = '"' 15 only!	,Only when enable checksum, imei length ca	an be 14 or		
		Cancel OK			
Qu	it	PASS		Start	1
All Operate Si	uccessiully!!				