

AccessionIndex: TCD-SCSS-T.20220825.008

Accession Date: 25-Aug-2022

Accession By: Dr.Brian Coghlan

Object name: Samsung SGH-ZV10 mobile phone

Vintage: 2005

Synopsis: Late model clamshell mobile phone. S/N: R9TYA47381E.

**Description:**

The SGH-ZV10 clamshell mobile phone was introduced by Samsung in Q4/2005, just before the introduction of the modern form of smartphones in 2006. It is a classic example of text-oriented mobiles of the era, very easy to use, and very convenient for text messaging, which had by then become a surprisingly (to those who created the GSM standard) popular form of interaction, especially in Ireland. It was compact in form (90 x 48 x 25mm) and light (105g), very convenient to carry in a trouser pocket.

This mobile was based around a Qualcomm MSM6250 ARM system-on-chip (SoC) with 3G wireless capabilities. This SoC included a 146MHz 32-bit ARM926EJ-S CPU core using the ARM9 superscalar microarchitecture, ARM's first modified Harvard architecture with separate instruction and data buses, and also separate 4-way set-associative caches (instruction fetches do not evict data). The ARM926EJ-S core included an MMU, and also the ARM Jazelle technology, which enabled the direct execution of 8-bit Java bytecode in hardware. The ZV10 included 64MB of SDRAM memory (50MB usable) and 128MB NAND flash memory on a 16-bit data bus. It had a typical text-oriented mobile phone keypad and two displays: a primary internal TFT screen showing 256,000 colours on 220 x 176 pixels, plus an external secondary OLED screen showing 65,000 colours on 80 x 64 pixels. It had a 0.3Mpixel 640 x 480 VGA camera, IrDA infrared, Bluetooth 1.1, but no WiFi, nor an SD card slot like subsequent mobile phones. It used a mini-SIM card. The SoC supported GPS but this was not implemented in the ZV10. See Figure 1 for its specifications.

Its 1000mAh Li-Ion battery supposedly gave a standby time of up to 260 hours and a talk time of up to 200 minutes, but this was not remotely achievable in normal usage. Early users suffered from a typical battery life of 24 hours. This was somewhat remedied by the ZV10BUEK1 firmware release in April, 2006, but users were still advised to turn off 3G, turn off the phone overnight, and observe a set sequence after purchase (let phone run down, then turn it off, charge it for at least 8 hours, and only then use as normal). See Figures 11-13. A custom Samsung connector was used to connect to the 4.2V (max.650mA) charger or to a PC USB port.

Many thanks to Brian Coghlan for donating this item.

The homepage for this catalog is at: <https://www.scss.tcd.ie/SCSSTreasuresCatalog/>  
Click '*Accession Index*' (1st column listed) for related folder, or '*About*' for further guidance.  
Some of the items below may be more properly part of other categories of this catalog,  
but are listed here for convenience.

Accession Index	Object with Identification
<a href="#">TCD-SCSS-T.20220825.008.001</a>	Samsung SGH-ZV10 mobile phone. Late model clamshell mobile phone. S/N: R9TYA47381E. 2005.
<a href="#">TCD-SCSS-T.20220825.008.002</a>	Samsung SGH-ZV10 mobile phone charger, model TCH137UBE. S/N: HT1YA15KS/6.
<a href="#">TCD-SCSS-T.20220825.008.003</a>	Samsung SGH-ZV10 mobile phone USB data link cable, model PCB181BBE. S/N: RT1YA01ZS.

#### References:

1. gsmarena.com, *Samsung ZV10*, see:  
[https://www.gsmarena.com/samsung\\_zv10-1357.php](https://www.gsmarena.com/samsung_zv10-1357.php)  
Last browsed to on 25-Aug-2022.
2. WikiChip, *MSM6250 - Qualcomm*, see:  
<https://en.wikichip.org/wiki/qualcomm/msm6xxx/msm6250>  
Last browsed to on 25-Aug-2022.

<b>NETWORK</b>	Technology	GSM / UMTS
<b>LAUNCH</b>	Announced	2005, Q4
	Status	Discontinued
<b>BODY</b>	Dimensions	90.5 x 48 x 25.8 mm (3.56 x 1.89 x 1.02 in)
	Weight	105 g (3.70 oz)
	SIM	Mini-SIM
<b>DISPLAY</b>	Type	TFT, 256K colors
	Size	
	Resolution	176 x 220 pixels Second external display OLED, 65K colors (80 x 64 pixels)
<b>MEMORY</b>	Card slot	No
	Phonebook	1000 entries, Photocall
	Call records	30 dialed, 30 received, 30 missed calls
	Internal	50MB
<b>MAIN CAMERA</b>	Single	VGA
	Video	QCIF
<b>SELFIE CAMERA</b>	Single	Yes
	Video	
<b>SOUND</b>	Loudspeaker	Yes
	Alert types	Vibration; Downloadable polyphonic, MP3 ringtones
	3.5mm jack	No
<b>COMMS</b>	WLAN	No
	Bluetooth	1.1
	GPS	No
	Infrared port	Yes
	Radio	No
	USB	Proprietary
<b>FEATURES</b>	Sensors	
	Messaging	SMS, MMS, Email
	Browser	WAP 2.0/xHTML
	Games	Yes + downloadable
	Java	Yes, MIDP 2.0
		Video telephony
		MP3/AAC/AAC+ player
		Predictive text input
<b>BATTERY</b>	Type	Removable Li-Ion 1000 mAh battery (BST532ABEC/STD)
	Stand-by	Up to 260 h
	Talk time	Up to 3 h 20 min
<b>MISC</b>	Colors	Black
	SAR	0.51 W/kg (head) 0.41 W/kg (body)
	SAR EU	0.77 W/kg (head)
Disclaimer. We can not guarantee that the information on this page is 100% correct. <a href="#">Read more</a>		

Figure 1: Samsung SGH-ZV10 specifications, from gsmarena.com



*Figure 2: Samsung SGH-ZV10 front view, closed*



*Figure 3: Samsung SGH-ZV10 front three-quarter view, closed, showing female charging socket*



*Figure 4: Samsung SGH-ZV10 front view, open*





*Figure 5: Samsung SGH-ZV10 left front three-quarter view*



*Figure 6: Samsung SGH-ZV10 right front three-quarter view*



*Figure 7: Samsung SGH-ZV10 rear view, closed and open*





*Figure 8: Samsung SGH-ZV10 with charger and USB data link cable*



*Figure 9: Samsung SGH-ZV10 charger and its manufacturing label*





*Figure 10: Samsung SGH-ZV10 USB data link cable, with closeup of Samsung proprietary male plug*

A Andy

MyZ 23 Apr 2006

To: José Leonardo.

I got it from this website:

<http://www.rexnet.it/firmware/sgh-zv10/zv10buck1.zip>

Big 31MB file to download.

Be careful you dont muck up your phone. :-)

Andy.

J José Leonardo

P4Y 23 Apr 2006

GUY'S

Very very important, i found how to get like 5 days of battery life!!

Ok its like this

You have to dial this number \*#3695147\*#

then you go to network & call settings

then go to service domain

and select CS

that is to turn of the GPRS, GPRS will be activated automatically when needed like to send a MMS, and will go out automatically as well.

T Trev

iJS 07 Mar 2007

Help, please It's Wednesday night and I am having to recharge my battery for the 2nd time (not including the 1st full charge when ypu open the box,a s that will make it 3) since purchasing this phone on Saturday (5 days ago !) Samsung said that the battery should have a standby time of 260 hours and atalk time of 3 hrs 20 mins. I recieved one call today and my battery started loosing it's charge straight away. Samsung alos advised me to charge and them discharge the battery until it is flat, 2 to 3 times before it will "fully keep" it's charge - I think I got the push-off.

Also have had a nightmare to configure my phone to MMS and WAP. My service provider hear states that my ZV10 is MMS non-compatible and even though it has the settings for WAP, I cannot get it working.

Please, I would appreciate any advice (apart from taking it back to the shop, only if I have too!!!!)

Thanks

j jsoby28

wvZ 12 Apr 2007

trev

youl have to turn off 3G if u want maximum batery and try this:

dial \*#3695147\*#

Network and Call settings

Service domain

then select CS

Its for mms's but wen u send one it automstically comes back just until u send a mms

*Figure 11: Samsung SGH-ZV10, excerpts from 'ZV10 User Opinions'*

**SOME THINGS YOU CAN TRY IF YOU ARE HAVING PROBLEMS WITH YOUR BATTERY LIFE! PLEASE READ THIS IS IMPORTANT**

Here is a list of things that you can try.

1. Turn 3G off
2. Turn your phone off at night if its not needed.
3. Charge your battery properly!!

This is how ive been told to charge batteries and its worked for me so far!!

When you first get the phone let the factory charge run down, once it has **TURN THE PHONE OFF**, charge it overnight for atleast 8 hours, the next day turn the phone on and use it as normal, you will probably 2 or 3 days (or less) out of this **FIRST CHARGE**.

Once the phone has gone flat again **AND ONLY THEN** turn the phone off and charge overnight for atleast 8 hours. Turn the phone on again the next day and use is as normal, you should get 4 or 5 days.

Once the phone goes flat again **AND ONLY THEN**, turn the phone off, charge it overnight again for atleast 8 hours.

After 3 **OVERNIGHT** 8+hour charges you should get a full week out of it.

Please note it is vital that you **TURN YOUR PHONE OFF** to charge it or the battery wont get the full benefit of the charge.

If you have had this phone for awhile it possible to do the 3 overnight charges as described above and to "wake-up" the dead battery cells and you may ( i stress **MAY**) get more life out of you battery.

Another note, don't charge your phone unless its needing a charge. Meaning the battery sign is flashing! Charging it in little bursts leads the battery to believe that what you are charging is only what the battery is capable of. Also car chargers are good if it needs a little battery power while your in the car, but they trickle feed so its **NOT TO BE USED** for a full charge.

If you stick your phone on charge for a couple of hours and it says its full more than likely its not, this is why i recommend to charge for 8hrs+ and with it turned off, just so its not searching for network coverage or taking txts or ph calls.

This may not be correct in every case. It has worked for me. Ive done the 3 overnight charges and im up to my 5th day still on full battery power (& i use my phone a fair bit). If anyone else has any problems with this phone, plz let me know, i would like to help.

R Rodwill

Nxs 30 Mar 2006

I don't know if the phone's battery life should be like this, if I am lucky the battery will last me a day if I hardly make calls, if I recieve calls it will last me at most 4hrs. I had a nokia 6600 that lasted me nearly a full week in battery life, can this phones battery really be this bad or is my phone faulty. It is only a week old, please can someone help!!!!

d don

mRX 30 Mar 2006

if u want long battery life u shud:  
 turn ur fone off when charging.  
 turn off 3g coverege  
 turn it off at nite  
 charge it when the battery is completly empty

p poohbear

nyK 06 Apr 2006

**FOR SHARON**

To switch of 3G, go to menu, settings, connectivity, Network Mode. Change from automatic to 900/1800 band.

*Figure 12: Samsung SGH-ZV10, excerpts from 'ZV10 User Opinions'*



D David

plH 10 Apr 2006

The Samsung ZV10 phone is really a great phone. Many of the problems of the users like battery life or cobertry are due to corrupt parameters in older software versions. It can be solved just updating the mobile's software (flashing it, it have to be done by Vodafone in warranty)...

About battery life, I have to say that few of the many users follows the manufacturer instructions about the battery usage, the load cycle time or whatever...Anyway it can be better just flashing it.

A Andy

MyZ 16 Apr 2006

I updated my flash on the ZV10 today from ZV10BUEI3 to the latest (I think?) ZV10BUEK1 Firmware just to see if it would cure my bad battery power problem. Everything went straightforward with the update.

Hi,

On one of the Spanish forums I found this code \*#9998\*324# that allows to enter the Test Mode on ZV10. Some people might find it useful. You can change some of the phone's settings that aren't accessible through normal menus.

E Eireann

DVs 13 Feb 2006

The battery last a lot longer if you turn off 3g (Settings, connectivity, network mode, GSM 900/1800). Most of the time you don't need it, and if you do you can just switch it back on.  
Hope this helps anyone with battery problems.

K Kaz

i2F 15 Feb 2006

This phone is great, but the battery life is not! I work for Vodafone and for everyone out there whos having a battery problem, I hear you. That stuff they tell you about new phones only lasting 1 day due to new technogoly is rubbish. I dont even get one day out of it now. And thats when Im not even using it. Its driving me insane and absoulty NO-ONE can give me answer! I will be in contact with Samsung today to see if I can find an answer, then if it works for my phone I will post it on here to help the rest of you with the same problem (which I might add its ALOT). Keep watching and I'll see if I can help you all.

K Kala

n6E 15 Feb 2006

hi

So I have zv 10 around 3 months now.I bought this in Vodafone Germany. An I have very big problem with the battery. It lasts max 4 days.Very often I need to charge the phone after 24 hours in the situation I didn't use the phone at all, not even single sms. I tried to complain to Vodafone shop, but they said that this is normal, this new technology works like this, now batteries can last even half a day and so on.But to be honest, the producer says that battery should be enough for max 220 hours, which means 9 days.This is not real information.I don't call,play or use MP3 player, UMTS is also off. What better conditions I can get? But I still have to charge my phone every two days. I really don'T know what to do.

N Natalia

nyF 18 Feb 2006

I bought Samsung zv10 a month ago. Battery life is getting worse and worse.Went to Vodafone Ireland Store in the Pavillions shopping centre. I was told I need to charge my phone EVERYDAY, due to new technology. I was never told this when I bought the phone.They offer absolutely no help. I was also told that it depends on network coverage...however I think it is ridiculous that a battery lasts only ONE day without even using 3G. And for Vodafones Customer Service...pathetic!!! Extremely dissapointed.If Kaz (who just posted a message and who works for vodafone) manage to get some info on how to get this fixed it will be really really appreciated. Thanks in advance!

*Figure 13: Samsung SGH-ZV10, excerpts from 'ZV10 User Opinions'*