AccessionIndex: TCD-SCSS-T.20220825.006
Accession Date: 25-Aug-2022
Accession By: Dr.Brian Coghlan
Object name: Samsung Galaxy S4 Zoom smartphone/camera
Vintage: 2013
Synopsis: Superb combination of 10X optical SLR camera and Android mobile
smartphone, model SM-C101. S/N: CN1D701B1PW.

Description:
The Galaxy S4Zoom smartphone/camera, introduced by Samsung in 2013, was a
superb combination of an Android mobile smartphone with a 10X optical 16MP BSI-
CMOS SLR camera (24–240mm 35mm-equivalent) with f/3.1-6.3 lens, built-in
optical image stabilizer, standard xenon flash, and both auto and manual camera
control, that was capable of taking video in 1080p 30fps (full-HD), 720p at 60fps, or
slow motion video at 768×512 pixels at 120fps. It also had a 1.9MP camera for
video calls. See Figure 1 for the specification [1][2][3].

This device used a Pega-Dual +XMM6262 system-on-a-chip (SoC), including a
1.5GHz dual-core ARM Cortex-A9 CPU (multi-issue superscalar, out-of-order, with
speculation and 4-way associative caches [4]) with a Mali-400 GPU. The SM-C101
was the base model, but there was an LTE 4G variant, the SM-C105.

The smartphone portion was comparable to the S4mini, with 8GB of memory, 1.5GB
of RAM, 802.11 a/b/n/g WiFi, Bluetooth 4.0, and GPS, a micro-SIM slot, a micro-
SDXC card slot, a type B microUSB port, and a Super-AMOLED screen showing 960
$\times$ 540 pixels, protected by the latest durable glass, Gorilla Glass 3. It was released
with the Android 4.2.2 (*JellyBean*) software [5], and was upgradeable to Android
4.4.2 (*KitKat*) [6], but badly suffered from the S4 platform's inability to be upgraded
beyond 4.4.2. The behaviour was identical to that of the S4mini, but with a better
battery life, while the mobile benefited from the 16MP SLR camera, and vice-versa.
Reviews were favourable as a camera, less so as a smartphone, since it was not
comfortable in pockets and awkward to use upright as is usual for a phone [7]. Users,
however, were more enchanted, and this was reflected in the fact that although
Samsung supplied an official cover for the S4 Zoom [8] that included auto-standby
when the lid closed, alternative covers quickly became available from other sources
that were more suitable for photographers, including the Remax soft cover included
with this item. Perhaps also reflecting this, Samsung manufactured a special portable
battery charger, the EP-B740CE, purportedly to ensure the S4 Zoom never ran out of
power. But of course it required 5V power from a USB charger, which the S4Zoom
could be directly charged from, so it was more sensibly used to charge a spare battery
for use in field trips if the S4 Zoom's battery ran out of power. The S4 Zoom used a
specific 2330mAh Li-Ion battery that gave up to 570 hours of standby time and up to
13 hours of talk time, rechargable at 5V via its USB interface. Despite the size of the
battery, the S4 Zoom was surprisingly compact, only 126 x 64 x 15mm in size, but
was quite heavy, weighing 208g (almost twice the 107g of the S4mini).

In June 2014 a successor, the Galaxy K Zoom, was introduced, but sadly a year later
Samsung began withdrawal from the camera market, finally withdrawing in 2017.

Many thanks to Brian Coghlan for donating this very interesting item.

The homepage for this catalog is at: https://www.scss.tcd.ie/SCSSTreasuresCatalog/
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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
TCD-SCSS-T.20220825.006.001	Samsung Galaxy S4 Zoom smartphone/camera. Superb combination of 10X optical SLR camera and Android mobile smartphone, model SM-C101. S/N: CN1D701B1PW. 2013.
TCD-SCSS-T.20220825.006.002	Samsung Flip Cover for Samsung Galaxy S4 Zoom.
TCD-SCSS-T.20220825.006.003	Remax soft skin cover for Samsung Galaxy S4 Zoom.
TCD-SCSS-T.20220825.006.004	Samsung EP-B740CE battery charger. USB-powered charger for a spare battery for a Samsung Galaxy S4 Zoom smartphone. S/N: DK1DA15MS/94 E. 2013.

References:

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5. Samsung, *Samsung SM-C101 User Manual (June 2013)*, see:
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6. Samsung, *Samsung SM-C101 User Manual (September 2014)*, see:
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8. mobilefun.co.uk, *Samsung Flip Cover for Samsung Galaxy S4 Zoom*, see:
    https://www.scss.tcd.ie/SCSSTreasuresCatalog/hardware/TCD-SCSS-T.20220825.007/Flip-cover-for-Samsung-Galaxy-S4-Zoom-wwwMOBILEFUNcoUK.pdf
    Last browsed to on 25-Aug-2022.

NETWORK	Technology	GSM / HSPA / LTE	EXPAND ▼
LAUNCH	Announced	2013, June. Released 2013, July	
	Status	Discontinued	
BODY	Dimensions	125.5 x 63.5 x 15.4 mm (4.94 x 2.5 x 0.61 in)	
	Weight	208 g (7.34 oz)	
	Build	Glass front (Gorilla Glass 3), plastic back, plastic frame	
	SIM	Micro-SIM	
DISPLAY	Type	Super AMOLED	
	Size	4.3 inches, 51.0 cm^2 (~64.0% screen-to-body ratio)	
	Resolution	540 x 960 pixels, 16:9 ratio (~256 ppi density)	
	Protection	Corning Gorilla Glass 3	
PLATFORM	OS	Android 4.2.2 (Jelly Bean), upgradable to 4.4.2 (KitKat)	
	Chipset	Pega-Dual +XMM6262	
	CPU	Dual-core 1.5 GHz Cortex-A9	
	GPU	Mali-400	
MEMORY	Card slot	microSDXC (dedicated slot)	
	Internal	8GB 1.5GB RAM	
MAIN CAMERA	Single	16 MP, 1/2.33", 24-240mm, 10x optical zoom, AF, OIS	
	Features	Xenon flash, HDR, panorama	
	Video	1080p@30fps	
SELFIE CAMERA	Single	1.9 MP	
	Video		
SOUND	Loudspeaker	Yes	
	3.5mm jack	Yes	
COMMS	WLAN	Wi-Fi 802.11 a/b/g/n, dual-band, Wi-Fi Direct, DLNA, hotspot	
	Bluetooth	4.0, A2DP, LE, aptX	
	GPS	Yes, with A-GPS, GLONASS	
	NFC	Yes	
	Infrared port	Yes	
	Radio	No	
	USB	microUSB 2.0 (MHL TV-out), USB On-The-Go	
FEATURES	Sensors	Accelerometer, gyro, proximity, compass	
		S-Voice natural language commands and dictation	
BATTERY	Type	Li-Ion 2330 mAh, removable	
	Stand-by	Up to 570 h (3G)	
	Talk time	Up to 13 h (3G)	
	Music play	Up to 46 h	
MISC	Colors	White, Dynamic Black	
	Models	SM-C1010, SM-C101, SM-C105	
	SAR	0.35 W/kg (head) 1.05 W/kg (body)	
	SAR EU	0.14 W/kg (head) 0.20 W/kg (body)	
	Price	About 280 EUR	
TESTS	Display	Contrast ratio: Infinite (nominal) / 3.118:1 (sunlight)	
	Camera	Photo / Video	
	Loudspeaker	Voice 73dB / Noise 66dB / Ring 75dB	
	Audio quality	Noise -91.5dB / Crosstalk -90.5dB	
	Battery life	Endurance rating 61h	

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Figure 1: Samsung Galaxy S4 Zoom specifications from gsmarena.com

Figure 2: Samsung Galaxy S4 Zoom lower front view

Figure 3: Samsung Galaxy S4 Zoom upper front view

Figure 4: Samsung Galaxy S4 Zoom with official cover closed

Figure 5: Samsung Galaxy S4 Zoom with official cover open

Figure 6: Remax soft skin cover for Samsung Galaxy S4 Zoom top view

Figure 7: Remax soft skin cover for Samsung Galaxy S4 Zoom bottom view

Figure 8: Samsung EP-B740CE charger for S4 Zoom battery top view with cover closed

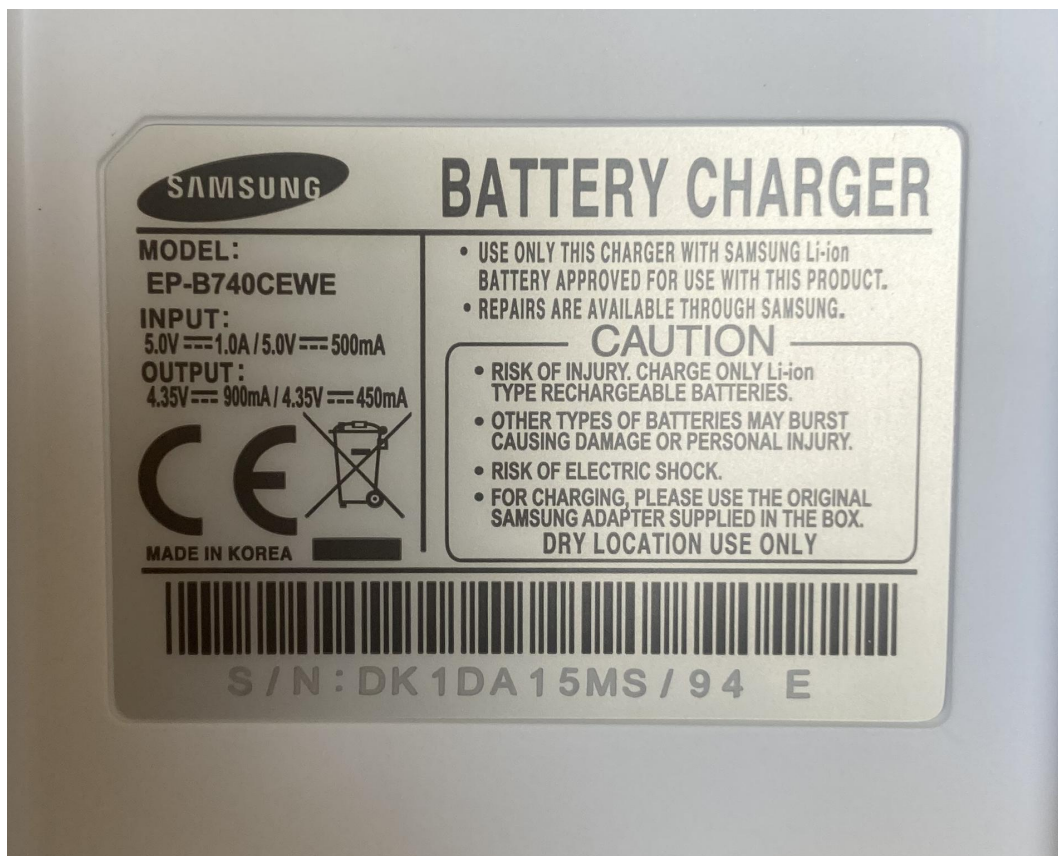*Figure 9: Samsung EP-B740CE charger for S4 Zoom battery top view with cover open*

Figure 10: Samsung EP-B740CE charger for S4 Zoom battery manufacturing label