

# Samsung Z Fold 5 5G 256GB Phantom Black(SM-F946BZKBEUB)

## Samsung Galaxy Z Fold 5 5G 256GB Phantom Black



Meet the phone with a big screen like a mobile movie theater. The one that's both an exciting game console and a multi-screen, multitasking workhorse. And topped off with a powerful, pro-grade camera. All folded into your hands.

### Key Selling Points

- The light, compact Galaxy Z Fold
- Slimmer, lighter and more portable
- Keep it bright, even in direct light
- Enjoy all day battery
- Powerful gaming with the fast Snapdragon on a Galaxy Z Fold
- The 50MP MVP
- Dual preview puts your subject in control
- Make lowlight your high favorite setting
- Armor aluminum frame
- Flex hinge
- Water resistant
- Control more screens at once with multi control

### Product Features

#### The light, compact Galaxy Z Fold

The laws of physics have nothing on this leveled-up design. Galaxy Z Fold5 lives up to its name by folding closed, making a massive screen implausibly pocketable. Open it up, fold it shut or flex to the perfect angle. The redesigned Flex Hinge is a technical marvel that bends to your will.

#### Slimmer, lighter and more portable

The form factor was trimmed down, giving you a tighter grip on what you love without sacrificing an ounce of power.

#### Keep it bright, even in direct light

Don't worry about sunlight ruining your view as you enjoy a movie-going experience on the 7.6-inch Main Screen. You'll feel like you're right in the middle of the action - with Galaxy Z Fold5 emitting 1750 nits of brightness.

#### Enjoy all day battery

A phone this impressive - you'll want to be on it all the time. With a massive 4400 mAh (typical) dual battery system, you can. Paired up with an advanced processor, it efficiently adjusts power usage to your habits and your needs, making one charge last longer.

#### Powerful gaming with the fast Snapdragon on a Galaxy Z Fold

Power your road to victory with the upgraded hardware and software of Snapdragon 8 Gen 2 Mobile Platform for Galaxy. This high-performance processor fuels champion-level gameplay.

#### The 50MP MVP

Not just an advanced camera system, this unique form factor featuring two expansive displays allows you to set up your phone like a mobile studio, complete with 30x Space Zoom. So you can shoot, reshoot, zoom and edit with a high level of creative freedom.

#### Dual preview puts your subject in control

Unfold Galaxy Z Fold5 to show your subject exactly what you're seeing in the viewfinder. This way, they can adjust their pose and fix their hair to look their good.

#### Make lowlight your high favorite setting

Unfold to the Main Screen and capture the high resolution night photos you've always dreamed of - stunning lowlight photography that captures each moment with color and clarity.

#### Armor aluminum frame

Galaxy Z Fold5 is reinforced with a tough aluminum frame. This powerful shell lives up to its name - Armor Aluminum - protecting your phone from damage.

#### Flex hinge

The double rail hinge is stronger, more durable and a beauty to behold.

#### Water resistant

With IPX8 water resistance, your Galaxy Z Fold5 easily survives spills and showers.

#### Control more screens at once with multi control

Enjoy seamless device collaboration. Multi control lets you use a keyboard and mouse across devices like your Galaxy Z Fold5 and Galaxy Tab S9, making it even easier to copy and paste or drag and drop. Your tablet can even double as a second screen, to make your portable workspace even more efficient.



Main Specifications

Product Description	Samsung Galaxy Z Fold5 - phantom black - 5G smartphone - 256 GB - GSM
Product Type	5G smartphone
Manufacturer Model Number	SM-F946B/DS
Display	OLED display - 2176 x 1812 pixels - 7.6" - 374 ppi - (120 Hz) - 21.6:18 - Infinity Flex Dynamic AMOLED 2X - HDR - Corning Gorilla Glass Victus 2 (scratch resistant glass) - inward - foldable
Display (2nd)	OLED display - colour - 6.2"
Display (Unfolded)	7.6 in - 2176 x 1812 pixels
Processor	Qualcomm Snapdragon 8 Gen 2 3.36 GHz (8-core)
Memory	RAM 12 GB / 256 GB
Operating System	Android 13 with One UI 5.1.1
Main Camera	50 Megapixel - wide-angle lens - f/1.8 - focus:automatic
Second Camera	12 Megapixel - ultra wide-angle lens - f/2.2
Third Camera	10 Megapixel - telephoto lens - 3x optical zoom - f/2.4
Front Camera	10 Megapixel f/2.2
Second Front Camera	4 Megapixel - f/1.8
Service Provider	Not specified
Form Factor	Folder - touch screen, dual screen
SIM Card	Dual-SIM - nano SIM, Electronic SIM card (e-SIM)
Wireless Interface	NFC, Wi-Fi 6, UWB, Wi-Fi 6E, Bluetooth
Security Devices	Face recognition, fingerprint reader (side)
Connectors	USB-C
Talk Time	Up to 2400 minutes
Wireless Charging Standards	WPC, Qi, Fast Wireless Charging 2.0, Wireless PowerShare
Protection	Water-resistant
Colour	Phantom black
Dimensions (WxDxH)	67.1 mm x 13.4 mm x 154.9 mm
Weight	253 g
Repairability Index	8 (out of 10)
Specific Absorption Rate (SAR)	1.244 W/kg (head)   1.193 W/kg (body)   3.12 W/kg (limb)

Extended Specification

General

Product Type	Smartphone
Manufacturer Model Number	SM-F946B/DS
Form Factor	Folder - touch screen, dual screen
Protection	Water-resistant
Width	67.1 mm
Depth	13.4 mm
Height	154.9 mm
Weight	253 g
Dimensions Details	Folded - 67.1 mm x 13.4 mm x 154.9 mm Unfolded - 129.9 mm x 6.1 mm x 154.9 mm



Body Colour	Phantom black
Body Material	Armour Aluminium frame, Corning Gorilla Glass Victus 2
SAR Value	1.244 W/kg (head), 3.12 W/kg (limb), 1.193 W/kg (body)

Cellular

Technology	WCDMA (UMTS) / GSM
Mobile Broadband Generation	5G
Service Provider	Not specified
Operating System	Android 13
User Interface	One UI 5.1.1
Intelligent Assistant	Bixby
Navigation	GPS, GLONASS, BeiDou, Galileo, QZSS
SIM Card Type	Nano SIM, Electronic SIM card (e-SIM)
SIM Card Qty	Dual-SIM
Payment Technology	Samsung Pay
Input Device	Multi-touch

Communications

Data Transmission	FDD-LTE, TDD-LTE, 5G NR FR1
2G Band	850 GSM, 900 GSM, 1800 GSM, 1900 GSM
3G UMTS Band	Band 1, Band 2, Band 4, Band 5, Band 8
3G UMTS Frequency	2100, 1900, 1700, 850, 900
4G LTE Band	Band 1, Band 2, Band 3, Band 4, Band 5, Band 7, Band 8, Band 12, Band 13, Band 17, Band 18, Band 19, Band 20, Band 25, Band 26, Band 28, Band 32, Band 38, Band 39, Band 40, Band 41, Band 66
4G LTE Frequency	FDD 2100, FDD 1900 PCS, FDD 1800+, FDD 1700 - 2110 AWS, FDD 850, FDD 2600, FDD 900, FDD 700a, FDD 700c, FDD 700b, FDD 800 lower, FDD 800 upper, FDD 800 DD, FDD 1900+, FDD 850+, FDD 700 APT, FDD 1500 L, TDD 2600, TDD 1900, TDD 2300, TDD 2500, FDD 1700 - 2110 AWS-3
5G NR Band	N1, n2, n3, n5, n7, n8, n20, n28, n38, n41, n66, n75, n77, n78, n40, n25, n12
5G NR Frequency	FDD 2100, FDD 1900PCS, FDD 1800, FDD 850, FDD 2600, FDD 900, FDD 800, FDD 700APT, TDD TD 2600, TDD TD 2500, FDD AWS-3, SDL DL 1500+, TDD TD 3700, TDD TD 3500, TDD 2300, FDD 1900, n12
Wireless Interface	NFC, IEEE 802.11a/b/g/n/ac/ax, Ultra-Wideband (UWB), Wi-Fi 6E, Bluetooth 5.3

Phone Features

Sensors	Accelerometer, proximity sensor, barometer, gyro sensor, hall sensor, geomagnetic sensor, light sensor
Security Devices	Face recognition, fingerprint reader (side)
Additional Features	Multitasking, Multi Window, MIMO technology, Samsung KNOX, Samsung DeX support, Samsung Smart Switch, dual battery, Flex mode, Samsung Knox Vault, S Pen support, taskbar

Media Player

Supported Digital Audio Standards	WAV, AAC, AMR, MP3, FLAC, XMF, OGG, MIDI, APE (Monkey's Audio), M4A, DSF, MXMF, OGA, 3GA, AWB, IMY, RTTTL, RTX, OTA, DFF, MID
Supported Digital Video Standards	MKV, FLV, AVI, 3GP, M4V, WebM, 3G2, MP4



Processor

Type	Qualcomm Snapdragon 8 Gen 2
Clock Speed	3.36 GHz
Processor Core Qty	8-core

Memory

RAM	LPDDR5X SDRAM - 12 GB
Internal Memory Capacity	256 GB
User Memory	216.1 GB

Front Camera

Sensor Resolution	10 Megapixel
Lens Aperture	F/2.2
Field of View (FoV)	85 degree(s)
Pixel Size	1.22 µm

Second Front Camera

Sensor Resolution	4 Megapixel
Lens Aperture	F/1.8
Field of View (FoV)	80 degree(s)
Pixel Size	2 µm
Features	Under display camera

Main Camera

Sensor Resolution	50 Megapixel
Optical Image Stabiliser	Optical Image Stabiliser (OIS)
Lens Type	Wide-angle lens
Lens Aperture	F/1.8
Field of View (FoV)	85 degree(s)
Pixel Size	1 µm
Focus Adjustment	Automatic
Self-Timer Delay	Yes
Camera Modes	Nightography, Capture View, Astro Hyperlapse
Light Source	LED flash
Video Resolutions	7680 x 4320 (8K) at 30fps
Features	RAW image capture, Dual Pixel Autofocus technology, AI Super Resolution, Dual preview, Auto FPS

Second Camera

Sensor Resolution	12 Megapixel
Lens Type	Ultra wide-angle lens
Lens Aperture	F/2.2
Field of View (FoV)	123 degree(s)



Pixel Size	1.12 µm
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Third Camera

Sensor Resolution	10 Megapixel
Optical Zoom	3x
Optical Image Stabiliser	Optical Image Stabiliser (OIS)
Lens Type	Telephoto lens
Lens Aperture	F/2.4
Field of View (FoV)	36 degree(s)
Pixel Size	1 µm
Features	Phase Detect Auto-Focus (PDAF), Space Zoom x30

Display

Type	OLED display
Technology	Infinity Flex Dynamic AMOLED 2X
Diagonal Size	7.6"
Display Resolution	2176 x 1812 pixels
Display Format	QXGA+
Foldable	Yes
Design	Inward folding
Pixel Density	374 ppi
Aspect Ratio	21.6:18
Max Brightness	1750 cd/m²
Colour Depth	16.7 million colours
HDR	Yes
HDR Technology	HDR10+
Refresh Rate	120 Hz
Protection	Corning Gorilla Glass Victus 2 (scratch resistant glass)
Features	100% DCI-P3

Display (2nd)

Type	OLED display - colour
Diagonal Size	6.2"
Display Resolution	2316 x 904 pixels
Colour Depth	16.7 million colours

Display (Unfolded)

Diagonal Size	7.6 in
Display Resolution	2176 x 1812 pixels

Connections

Connector Type	USB Type-C - 24 pin USB-C
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Battery



Capacity	4400 mAh
Fast Charging Technology	Qualcomm Quick Charge 2.0, Adaptive Fast Charging, Samsung Super Fast Charging
Wireless Charging	Yes
Wireless Charging Standards	WPC, Qi, Fast Wireless Charging 2.0, Wireless PowerShare
Talk Time	2400 minutes
Run Time Details	Active online usage (LTE):up to 17 hrs
	Active online usage (Wi-Fi):up to 18 hrs
	Playback (wireless video):up to 21 hrs
	Playback (wireless audio):up to 73 hrs
	Talk (4G):up to 2400 min

Miscellaneous

Compliant Standards	VDE, HAC (Hearing Aid Compatible), IPX8, IEC 61960
Included Accessories	SIM card removal tool, USB-C cable

Sustainability Information

Repairability Index	8 (out of 10)
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Environmental Parameters

Max Depth of Water Resistance	1.5 m
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