

Samsung Galaxy Z Fold5 SM-F946B 19.3 cm (7.6") Dual SIM
Android 13 5G USB Type-C 12 GB 256 GB 4400 mAh Black

Brand : Samsung Product family: Galaxy Product code: SM-F946BZKBEUB

Product name : SM-F946B



- Our lightest, most compact Galaxy Z Fold
 - Immersive viewing with 7.6" Main Display
 - The most advanced multitasking experience on a Samsung Galaxy smartphone
- Galaxy Z Fold5

Samsung Galaxy Z Fold5 SM-F946B. Display diagonal: 19.3 cm (7.6"), Display resolution: 2176 x 1812 pixels. Processor family: Qualcomm Snapdragon, Processor model: 8 Gen 2. RAM capacity: 12 GB, Internal storage capacity: 256 GB. Rear camera resolution (numeric): 50 MP, Rear camera type: Triple camera. SIM card capability: Dual SIM. Operating system installed: Android 13. Battery capacity: 4400 mAh. Product colour: Black. Weight: 253 g

Display		Camera	
Display diagonal *	19.3 cm (7.6")	Image stabilizer	✓
Screen shape	Flat	Image stabilizer type	Optical Image Stabilization (OIS)
Display technology marketing name	Dynamic AMOLED 2X	Night mode	✓
Panel type	OLED	Panorama	✓
Display glass type	Gorilla Glass	Portrait mode	✓
Gorilla Glass version	Gorilla Glass Victus 2	Network	
Display resolution *	2176 x 1812 pixels	SIM card capability *	Dual SIM
Display number of colours	16 million colours	Mobile network generation *	5G
Maximum refresh rate	120 Hz	SIM card type *	NanoSIM + eSIM
Display brightness	1200 cd/m²	3G standards *	UMTS, WCDMA
Maximum display brightness (Outdoor)	1750 cd/m²	4G standard *	LTE-TDD & LTE-FDD
Pixel density	374 ppi	5G standard *	Sub6 FDD, Sub6 TDD
Brand specific technologies	Always-on display	Wi-Fi *	✓
Second display	✓	Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6E (802.11ax)
Second display diagonal	15.8 cm (6.2")	Bluetooth *	✓
Second display resolution	2316 x 904 pixels	Bluetooth version	5.3
Second display brightness	1000 cd/m²	3G bands supported	850,900,1900,2100 MHz
Second display refresh rate	120 Hz	4G bands supported	700,800,850,900,1500,1800,1900,2100,2300,2500,2600 MHz
Processor		5G bands supported	700,800,850,900,1800,1900,2100,2300,2500,2600,3500,3700 MHz
Processor family *	Qualcomm Snapdragon	Wi-Fi Direct	✓
Processor model *	8 Gen 2	MIMO	✓
Processor cores	8	Modulation	1024-QAM
Processor boost frequency	3.36 GHz	Near Field Communication (NFC)	✓
Storage		Ports & interfaces	
User memory	216.1 GB	USB port *	✓
RAM capacity *	12 GB	USB connector type	USB Type-C
Internal storage capacity *	256 GB	USB version	3.2 Gen 1 (3.1 Gen 1)
Camera		Headphone connectivity	USB Type-C
Rear camera sensor size	1/1.56"	Design	
Second rear camera sensor size	1/3.21"	Form factor *	Clamshell
Third rear camera sensor size	1/3.94"	Product colour *	Black
Rear camera resolution (numeric) *	50 MP	Colour name	Phantom Black
Second rear camera resolution (numeric)	12 MP	International Protection (IP) code	IPX8
Third rear camera resolution (numeric)	10 MP	Protection features	Water resistant
Rear camera resolution	6120 x 8160 pixels	Housing material	Aluminium
Rear camera aperture number	1.8	Performance	
		Fast charging	✓
		Wireless charging	✓
		Fingerprint reader	✓
		Face recognition	✓
		USB On-The-Go support	✓

Camera		Navigation	
Second rear camera aperture number	2.2	GPS (satellite)	✓
Third rear camera aperture number	2.4	GLONASS	✓
Rear camera pixel size	1 µm	BeiDou	✓
Second rear camera pixel size	1.12 µm	Galileo	✓
Third rear camera pixel size	1 µm	Quasi-Zenith Satellite System (QZSS)	✓
Rear camera field of view (FOV) angle	85°	Position location *	✓
Second rear camera field of view (FOV) angle	123°	Multimedia	
Third rear camera field of view (FOV) angle	36°	Equalizer	✓
Optical zoom	3x	Audio system	Dolby Atmos
Digital zoom	30x	Audio formats supported	3GA, AAC, AMR, APE, AWB, DFF, DSF, FLAC, IMY, M4A, Mid, MIDI, MP3, MXMF, OGA, OGG, OTA, RTTTL, RTX, WAV, XMF
Front camera type *	Dual camera	Video formats supported	3G2, 3GP, AVI, FLV, M4V, MKV, MP4, WEBM
Front camera sensor size	1/3.24"	Software	
Front camera resolution (numeric) *	10 MP	Platform *	Android
Second front camera resolution (numeric)	4 MP	Operating system installed *	Android 13
Front camera aperture number	2.2	Battery	
Second front camera aperture number	1.8	Battery capacity *	4400 mAh
Front camera pixel size	1.22 µm	Talk time (4G)	40 h
Second front camera pixel size	2 µm	Browsing time (Wi-Fi)	18 h
Front camera field of view (FOV) angle	85°	Browsing time (4G)	17 h
Second front camera field of view (FOV) angle	80°	Continuous audio playback time	73 h
Rear camera flash *	✓	Continuous video playback time	21 h
Flash type	LED	Sensors	
Video capture resolution (max)	4320 x 7680 pixels	Proximity sensor	✓
Maximum frame rate	960 fps	Accelerometer	✓
Resolution at capture speed	1280x720@30fps,	Ambient light sensor	✓
	1920x1080@30fps,	Gyroscope	✓
	1920x1080@60fps,	Barometer	✓
	3840x2160@30fps,	Geomagnetic sensor	✓
	3840x2160@60fps,	Hall sensor	✓
	7680x4320@30fps	Weight & dimensions	
Rear camera type *	Triple camera	Width	129.9 mm
Auto focus	✓	Depth	6.1 mm
Time lapse mode	✓	Height	154.9 mm
		Weight *	253 g
		Folded width	6.71 cm
		Folded depth	1.34 cm
		Folded height	15.5 cm



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