

Samsung Galaxy Z Fold5 SM-F946B 19.3 cm (7.6") Dual SIM
Android 13 5G USB Type-C 12 GB 512 GB 4400 mAh Cream

Brand : Samsung Product family: Galaxy Product code: SM-F946BZECEUB

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: 512 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: Cream. Weight: 253 g

Display		Camera	
Display diagonal *	19.3 cm (7.6")	Image stabilizer type	Optical Image Stabilization (OIS)
Screen shape	Flat	Night mode	✓
Display technology marketing name	Dynamic AMOLED 2X	Panorama	✓
Panel type	OLED	Portrait mode	✓
Display glass type	Gorilla Glass	Network	
Gorilla Glass version	Gorilla Glass Victus 2	SIM card capability *	Dual SIM
Display resolution *	2176 x 1812 pixels	Mobile network generation *	5G
Display number of colours	16 million colours	SIM card type *	NanoSIM + eSIM
Maximum refresh rate	120 Hz	3G standards *	UMTS, WCDMA
Display brightness	1200 cd/m²	4G standard *	LTE-TDD & LTE-FDD
Maximum display brightness (Outdoor)	1750 cd/m²	5G standard *	Sub6 FDD, Sub6 TDD
Pixel density	374 ppi	Wi-Fi *	✓
Brand specific technologies	Always-on 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	✓	Bluetooth *	✓
Second display diagonal	15.8 cm (6.2")	Bluetooth version	5.3
Second display resolution	2316 x 904 pixels	3G bands supported	850,900,1900,2100 MHz
Second display brightness	1000 cd/m²	4G bands supported	700,800,850,900,1500,1800,1900,2100,2300,2500,2600 MHz
Second display refresh rate	120 Hz	5G bands supported	700,800,850,900,1800,1900,2100,2300,2500,2600,3500,3700 MHz
Processor		Wi-Fi Direct	✓
Processor family *	Qualcomm Snapdragon	MIMO	✓
Processor model *	8 Gen 2	Modulation	1024-QAM
Processor cores	8	Near Field Communication (NFC)	✓
Processor boost frequency	3.36 GHz	Ports & interfaces	
Storage		USB port *	✓
RAM capacity *	12 GB	USB connector type	USB Type-C
Internal storage capacity *	512 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 *	Cream
Rear camera resolution (numeric) *	50 MP	International Protection (IP) code	IPX8
Second rear camera resolution (numeric)	12 MP	Protection features	Water resistant
Third rear camera resolution (numeric)	10 MP	Housing material	Aluminium
Rear camera resolution	6120 x 8160 pixels	Performance	
Rear camera aperture number	1.8	Fast charging	✓
		Wireless charging	✓
		Fingerprint reader	✓
		Face recognition	✓
		USB On-The-Go support	✓
		Navigation	
		GPS (satellite)	✓

Camera		Navigation	
Second rear camera aperture number	2.2	GLONASS	✓
Third rear camera aperture number	2.4	BeiDou	✓
Rear camera pixel size	1 µm	Galileo	✓
Second rear camera pixel size	1.12 µm	Quasi-Zenith Satellite System (QZSS)	✓
Third rear camera pixel size	1 µm	Position location *	✓
Rear camera field of view (FOV) angle	85°	Multimedia	
Second rear camera field of view (FOV) angle	123°	Equalizer	✓
Third rear camera field of view (FOV) angle	36°	Audio system	Dolby Atmos
Optical zoom	3x	Audio formats supported	3GA, AAC, AMR, APE, AWB, DFF, DSF, FLAC, IMY, M4A, Mid, MIDI, MP3, MXMF, OGA, OGG, OTA, RTTTL, RTX, WAV, XMF
Digital zoom	30x	Video formats supported	3G2, 3GP, AVI, FLV, M4V, MKV, MP4, WEBM
Front camera type *	Dual camera	Software	
Front camera sensor size	1/3.24"	Platform *	Android
Front camera resolution (numeric) *	10 MP	Operating system installed *	Android 13
Second front camera resolution (numeric)	4 MP	Battery	
Front camera aperture number	2.2	Battery capacity *	4400 mAh
Second front camera aperture number	1.8	Talk time (4G)	40 h
Front camera pixel size	1.22 µm	Browsing time (Wi-Fi)	18 h
Second front camera pixel size	2 µm	Browsing time (4G)	17 h
Front camera field of view (FOV) angle	85°	Continuous audio playback time	73 h
Second front camera field of view (FOV) angle	80°	Continuous video playback time	21 h
Rear camera flash *	✓	Sensors	
Flash type	LED	Proximity sensor	✓
Video capture resolution (max)	4320 x 7680 pixels	Accelerometer	✓
Maximum frame rate	960 fps	Ambient light sensor	✓
Resolution at capture speed	1280x720@30fps,	Gyroscope	✓
	1920x1080@30fps,	Barometer	✓
	1920x1080@60fps,	Geomagnetic sensor	✓
	3840x2160@30fps,	Hall sensor	✓
	3840x2160@60fps, 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
Image stabilizer	✓	Weight *	253 g
		Folded width	6.71 cm
		Folded depth	1.34 cm
		Folded height	15.5 cm
		Technical details	
		Repairability index	8



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