

**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 Blue**



**Brand :** Samsung

**Product family:** Galaxy

**Product code:** SM-F946BLBCEUB

**Product name :** SM-F946B

7.6" QXGA+ Dynamic AMOLED 2X (2176 x 1812), 6.2" HD+ Dynamic AMOLED 2X (2316 x 904), Qualcomm Snapdragon 8 Gen 2, 12GB RAM, 512GB ROM, 50MP+12MP+10MP/10MP+4MP, Wi-Fi 6E, Bluetooth 5.3, 4400 mAh

Samsung Galaxy Z Fold5 SM-F946B. Display diagonal: 19.3 cm (7.6"), Display resolution: 2176 x 1812 pixels, Display type: OLED. 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: Blue. 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 type	OLED	Night mode	✓
Display technology marketing name	Dynamic AMOLED 2X	Panorama	✓
Display glass type	Gorilla Glass	Portrait mode	✓
Gorilla Glass version	Gorilla Glass Victus 2	<b>Network</b>	
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/m <sup>2</sup>	3G standards *	UMTS, WCDMA
Maximum display brightness (Outdoor)	1750 cd/m <sup>2</sup>	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/m <sup>2</sup>	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
<b>Processor</b>		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)	✓
<b>Storage</b>		<b>Ports &amp; interfaces</b>	
RAM capacity *	12 GB	USB port *	✓
Internal storage capacity *	512 GB	USB connector type	USB Type-C
<b>Camera</b>		USB version	3.2 Gen 1 (3.1 Gen 1)
Rear camera sensor size	1/1.56"	Headphone connectivity	USB Type-C
Second rear camera sensor size	1/3.21"	<b>Design</b>	
Third rear camera sensor size	1/3.94"	Form factor *	Clamshell
Rear camera resolution (numeric) *	50 MP	Product colour *	Blue
Second rear camera resolution (numeric)	12 MP	Colour name	Icy Blue
Third rear camera resolution (numeric)	10 MP	International Protection (IP) code	IPX8
Rear camera resolution	6120 x 8160 pixels	Protection features	Water resistant
Rear camera aperture number	1.8	Housing material	Aluminium
Second rear camera aperture number	2.2	<b>Performance</b>	
Rear camera pixel size	1 µm	Fast charging	✓
		Wireless charging	✓
		Fingerprint reader	✓
		Face recognition	✓
		USB On-The-Go support	✓

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