

**Samsung Galaxy A13 SM-A135F/DS 16.8 cm (6.6") Android 12 4G USB Type-C 3 GB 32 GB 5000 mAh Black**



**Brand :** Samsung

**Product family:** Galaxy

**Product code:** SM-A135FZKUEUB

**Product name :** SM-A135F/DS

6.6", 2408 x 1080, Exynos850, 50MP+5MP+2MP+2MP/8MP, 802.11 a/b/g/n/ac, Bluetooth 5.0, NFC, 5000 mAh, Android 12.0 - One UI 4.1, Black

Samsung Galaxy A13 SM-A135F/DS. Display diagonal: 16.8 cm (6.6"), Display resolution: 2408 x 1080 pixels, Display type: TFT. Processor frequency: 2 GHz, Processor family: Samsung Exynos, Processor: 850. RAM capacity: 3 GB, Internal storage capacity: 32 GB. Rear camera resolution (numeric): 50 MP, Rear camera type: Quad camera. Operating system installed: Android 12. Battery performance: 5000 mAh. Product colour: Black. Weight: 195 g

Display		Network	
Display diagonal *	16.8 cm (6.6")	Wi-Fi *	✓
Display type	TFT	Wi-Fi standards	802.11a,802.11b,802.11g,Wi-Fi 4 (802.11n),Wi-Fi 5 (802.11ac)
Display glass type	Gorilla Glass	Bluetooth *	✓
Gorilla Glass version	Gorilla Glass 5	Bluetooth version	5.0
Display resolution *	2408 x 1080 pixels	Bluetooth profiles	A2DP
Display number of colors	16 million colours	3G bands supported	850,900,2100 MHz
Touch screen *	✓	4G bands supported	700,800,850,900,1800,2100,2500,2600 MHz
Contrast ratio (typical)	1200:1	Tethering (modem-mode)	✓
Native aspect ratio	20:9	Near Field Communication (NFC)	✓
Display brightness	480 cd/m <sup>2</sup>	<b>Subscription</b>	
Maximum refresh rate	60 Hz	Subscription type *	No subscription
Touch screen type	Capacitive	<b>Ports &amp; interfaces</b>	
Pixel density	401 ppi	USB port *	✓
<b>Processor</b>		USB connector type	USB Type-C
Processor frequency *	2 GHz	USB version	2.0
Processor family *	Samsung Exynos	ANT+ enabled	✗
Processor *	850	<b>Messaging</b>	
Processor number of cores	8	Short Message Service (SMS)	✓
<b>Storage</b>		Multimedia Messaging Service (MMS)	✓
RAM capacity *	3 GB	E-mail	✓
Internal storage capacity *	32 GB	<b>Design</b>	
Compatible memory cards *	MicroSD (TransFlash)	Form factor *	Bar
Maximum memory card size	1000 GB	Product colour *	Black
USB mass storage	✓	Housing material	Polycarbonate (PC)
<b>Camera</b>		<b>Performance</b>	
Rear camera resolution (numeric) *	50 MP	Graphics card	Mali-G52
Second rear camera resolution (numeric)	5 MP	Fingerprint reader	✓
Third rear camera resolution (numeric)	2 MP	Face recognition	✓
Fourth rear camera resolution (numeric)	2 MP	Country of origin	Vietnam
Rear camera aperture number	1.8	<b>Navigation</b>	
Second rear camera aperture number	2.2	GPS	✓
Third rear camera aperture number	2.4	Position location *	✓
Fourth rear camera aperture number	2.4	Wi-Fi positioning	✓
Digital zoom	10x		

<b>Camera</b>		<b>Multimedia</b>	
Front camera type *	Single camera	Audio system	Dolby Atmos
Front camera resolution (numeric) *	8 MP	<b>Software</b>	
Front camera aperture number	2.2	Platform *	Android
Rear camera flash *	✓	Operating system installed *	Android 12
Flash type	LED	Firmware version	One UI 4.1
Video capture resolution (max)	1920 x 1080 pixels	<b>Battery</b>	
Maximum frame rate	30 fps	Battery technology	Lithium-Ion (Li-Ion)
Resolution at capture speed	1920x1080@30fps	Battery voltage	3.85 V
Rear camera type *	Quad camera	Battery recharge time	2.33 h
Auto focus	✓	Battery weight	69 g
Panorama	✓	Removable battery	✗
<b>Network</b>		Battery performance *	5000 mAh
Mobile network generation *	4G	<b>Sensors</b>	
SIM card type *	NanoSIM	Accelerometer	✓
3G standards *	HSPA+, HSUPA	<b>Weight &amp; Dimensions</b>	
4G standard *	LTE-TDD & LTE-FDD	Width	76.4 mm
Voice over LTE (VoLTE) supported	✓	Depth	8.8 mm
		Height	165.1 mm
		Weight *	195 g
		<b>Packaging Content</b>	
		AC adapter bundled	✓
		Quick start guide	✓
		Warranty card	✓
		Cables included	USB Type-C
		SIM card ejector pin	✓



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