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Price:
%DevPrice%

Network	Technology:	GSM / CDMA / HSPA / EVDO / LTE / 5G
	2G bands:	GSM 850 / 900 / 1800 / 1900
		LTE band 1(2100), 2(1900), 3(1800), 4(1700/2100), 5(850), 7(2600), 8(900), 12(700), 13(700), 14(700), 18(800), 19(800), 20(800), 25(1900), 26(850), 28(700), 29(700), 30(2300), 46(5200), 48, 66(1700/2100), 71(600) USA
	3G bands:	HSDPA 850 / 900 / 1700(AWS) / 1900 / 2100
	4G bands:	LTE band 1(2100), 2(1900), 3(1800), 4(1700/2100), 5(850), 7(2600), 8(900), 12(700), 13(700), 17(700), 18(800), 19(800), 20(800), 25(1900), 26(850), 28(700), 32(1500), 38(2600), 39(1900), 40(2300), 41(2500), 66(1700/2100)
	5G:	5G band 5(850), 71(600), 260(39 GHz), 261(28 GHz); NSA/Sub6
	Speed:	HSPA 42.2/5.76 Mbps, LTE-A (7CA) Cat20 2048/150 Mbps, 5G (2+ Gbps DL)
Launch	Announced:	2019, August
	Status:	Available. Released 2019, August
Body	Dimensions:	162.3 x 77.2 x 7.9 mm
	Weight:	198 g
	Build:	Glass front (Gorilla Glass 6), glass back (Gorilla Glass 6), aluminum frame
	SIM:	Nano-SIM
		Samsung Pay (Visa, MasterCard certified)
		IP68 dust/water resistant (up to 1.5m for 30 mins)
		Stylus (Bluetooth integration, accelerometer, gyro), Samsung Pay (Visa, MasterCard certified)
Display		IP68 dust/water resistant (up to 1.5m for 30 mins)
		Stylus (Bluetooth integration, accelerometer, gyro), Samsung Pay (Visa, MasterCard certified)
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		Stylus (Bluetooth integration, accelerometer, gyro)
Display	Type:	Dynamic AMOLED capacitive touchscreen, 16M colors
	Size:	6.8 inches, 114.0 cm ² (~91.0% screen-to-body ratio)
	Resolution:	1440 x 3040 pixels, 19:9 ratio (~498 ppi density)
	Protection:	Corning Gorilla Glass 6
		HDR10
Platform		Always-on display, HDR10
		Always-on display
	OS:	Android 9.0 (Pie), planned upgrade to Android 10.0; One UI 2
	Chipset:	Exynos 9825 (7 nm)
	CPU:	Octa-core (2x2.73 GHz Mongoose M4 & 2x2.4 GHz Cortex-A75 & 4x1.9 GHz Cortex-A55)
Memory	GPU:	Mali-G76 MP12
	Card slot:	microSD, up to 1 TB (dedicated slot)
	Internal:	256 GB , 12 GB RAM
Sound	Loudspeaker:	Yes, with stereo speakers
	3.5mm jack:	No
		32-bit/384kHz audio
		Active noise cancellation with dedicated mic
Comms		Dolby Atmos sound
		Tuned by AKG, 32-bit/384kHz audio
		Active noise cancellation with dedicated mic
		Dolby Atmos sound
		Tuned by AKG, 32-bit/384kHz audio
		Active noise cancellation with dedicated mic
		Dolby Atmos sound
Comms		Tuned by AKG
	WLAN:	Wi-Fi 802.11 a/b/g/n/ac/ax, dual-band, Wi-Fi Direct, hotspot
	Bluetooth:	5.0, A2DP, LE, aptX
	GPS:	Yes, with A-GPS, GLONASS, BDS, GALILEO
	NFC:	Yes
	Radio:	No
	USB:	3.1, Type-C 1.0 reversible connector

Features	Sensors:	Fingerprint (under display, ultrasonic), accelerometer, gyro, proximity, compass, barometer
		Samsung DeX (desktop experience support)
		ANT+
		Bixby natural language commands and dictation, Samsung DeX (desktop experience support)
		ANT+
		Bixby natural language commands and dictation, Samsung DeX (desktop experience support)
Battery		ANT+
		Bixby natural language commands and dictation
Main Camera	Quad:	Non-removable Li-Ion 4300 mAh battery
		12 MP, f/1.5-2.4, 27mm (wide), 1/2.55", 1.4µm, Dual Pixel PDAF, OIS
		12 MP, f/2.1, 52mm (telephoto), 1/3.6", 1.0µm, PDAF, OIS, 2x optical zoom
		16 MP, f/2.2, 12mm (ultrawide), 1/3.1", 1.0µm, Super Steady video
		TOF 3D VGA camera, 12 MP, f/1.5-2.4, 27mm (wide), 1/2.55", 1.4µm, Dual Pixel PDAF, OIS
		12 MP, f/2.1, 52mm (telephoto), 1/3.6", 1.0µm, PDAF, OIS, 2x optical zoom
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		TOF 3D VGA camera
Selfie camera	Features:	LED flash, auto-HDR, panorama
	Video:	2160p@30/60fps, 1080p@30/60/240fps, 720p@960fps, HDR10+, dual-video rec., stereo sound rec., gyro-EIS & OIS
	Single:	10 MP, f/2.2, 26mm (wide), 1/3
	Features:	Dual video call, Auto-HDR
	Video:	2160p@30fps