

SAMSUNG GALAXY A8 (2018) REVIEW

PHONE FINDER

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NETWORK	Technology	GSM / CDMA / HSPA / LTE	GSM / CDMA / HSPA / EVDO / LTE	GSM / CDMA / HSPA / LTE
	2G bands	GSM 850 / 900 / 1800 / 1900 - SIM 1 & SIM 2	GSM 850 / 900 / 1800 / 1900 - SIM 1 & SIM 2 (dual-SIM model only)	GSM 850 / 900 / 1800 / 1900 - SIM 1 & SIM 2 (dual-SIM model only)
		CDMA 800 & TD-SCDMA	CDMA 800 / 1900 - USA	CDMA 800 / 1900 - USA
	3G Network	HSDPA 850 / 900 / 1700(AWS) / 1900 / 2100	HSDPA 850 / 900 / 1700(AWS) / 1900 / 2100 - Global, USA	HSDPA 850 / 900 / 1900 / 2100 - Global
			CDMA2000 1xEV-DO - USA	HSDPA 850 / 900 / 1700(AWS) / 1900 / 2100 - USA
				HSDPA 850 / 1700(AWS) / 1900 / 2100 - G710AWM
	4G Network	LTE band 1(2100), 2(1900), 3(1800), 4(1700/2100), 5(850), 7(2600), 8(900), 12(700), 17(700), 20(800), 34(2000), 38(2600), 39(1900), 40(2300), 41(2500)	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) - Global	LTE band 1(2100), 3(1800), 4(1700/2100), 5(850), 7(2600), 8(900), 12(700), 17(700), 20(800), 28(700), 32(1500), 38(2600), 40(2300), 42(3500), 46 - Global
			LTE band 1(2100), 2(1900), 3(1800), 4(1700/2100), 5(850), 7(2600), 8(900), 12(700), 13(700), 14(700), 17(700), 18(800), 19(800), 20(800), 25(1900), 26(850), 28(700), 29(700), 30(2300), 38(2600), 39(1900), 40(2300), 41(2500), 46, 66(1700/2100), 71(600) - USA	LTE band 2(1900), 4(1700/2100), 5(850), 7(2600), 13(700), 20(800), 28(700), 46, 66(1700/2100) - USA (G710ULM)
				LTE band 1(2100), 2(1900), 3(1800), 4(1700/2100), 5(850), 7(2600), 8(900), 12(700), 13(700), 17(700), 20(800), 25(1900), 26(850), 40(2300), 41(2500) - USA (G710PM)
				LTE band 1(2100), 3(1800), 5(850), 7(2600), 8(900), 28(700), 38(2600), 39(1900), 40(2300), 41(2500) - G710EMW, G710EAW
Speed	HSPA 42.2/5.76 Mbps, LTE-A (4CA)	HSPA 42.2/5.76 Mbps, LTE-A (6CA) Cat18	TIP US 883K 6 - 143K 10 87K 4 404K RSS LOG IN SIGN UP	HSPA 42.2/5.76 Mbps, LTE-A (3CA) Cat16

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LAUNCH	EDGE	Yes	Yes	Yes
	Announced	2018, May	2018, February	2018, May
BODY	Status	Available. Released 2018, June	Available. Released 2018, March	Available. Released 2018, May
	Dimensions	154.9 x 74.8 x 7.6 mm (6.10 x 2.94 x 0.30 in)	147.7 x 68.7 x 8.5 mm (5.81 x 2.70 x 0.33 in)	153.2 x 71.9 x 7.9 mm (6.03 x 2.83 x 0.31 in)
	Weight	175 g (6.17 oz)	163 g (5.75 oz)	162 g (5.71 oz)
	Build	Front/rear glass, aluminum frame (7000 series)	Front/back glass (Gorilla Glass 5), aluminum frame	Front/back glass (Gorilla Glass 5), aluminum frame
	SIM	Dual SIM (Nano-SIM, dual stand-by)	Single SIM (Nano-SIM) or Hybrid Dual SIM (Nano-SIM, dual stand-by)	Single SIM (Nano-SIM) or Hybrid Dual SIM (Nano-SIM, dual stand-by)
DISPLAY			<ul style="list-style-type: none"> - Samsung Pay (Visa, MasterCard certified) - IP68 dust/water proof (up to 1.5m for 30 mins) 	<ul style="list-style-type: none"> - IP68 dust/water proof (up to 1.5m for 30 mins) - MIL-STD-810G compliant
	Type	Super AMOLED capacitive touchscreen, 16M colors	Super AMOLED capacitive touchscreen, 16M colors	IPS LCD capacitive touchscreen, 16M colors
	Size	6.21 inches, 97.1 cm ² (~83.8% screen-to-body ratio)	5.8 inches, 84.8 cm ² (~83.6% screen-to-body ratio)	6.1 inches, 91.0 cm ² (~82.6% screen-to-body ratio)
	Resolution	1080 x 2248 pixels (~402 ppi density)	1440 x 2960 pixels, 18.5:9 ratio (~570 ppi density)	1440 x 3120 pixels, 19.5:9 ratio (~564 ppi density)
	Multitouch Protection	Yes Corning Gorilla Glass 5	Yes Corning Gorilla Glass 5	Yes Corning Gorilla Glass 5
PLATFORM		<ul style="list-style-type: none"> - HDR10 display - DCI-P3 - MIUI 9.5 	<ul style="list-style-type: none"> - HDR10 compliant - 3D Touch (home button only) - Always-on display 	<ul style="list-style-type: none"> - 100% DCI-P3 coverage - Dolby Vision/HDR10 compliant - Always-on display
	OS	Android 8.1 (Oreo)	Android 8.0 (Oreo)	Android 8.0 (Oreo), planned upgrade to Android 9.0 (P)
	Chipset	Qualcomm SDM845 Snapdragon 845	Exynos 9810 Octa - EMEA Qualcomm SDM845 Snapdragon 845 - USA/LATAM, China	Qualcomm SDM845 Snapdragon 845
	CPU	Octa-core (4x2.8 GHz Kryo 385 Gold & 4x1.8 GHz Kryo 385 Silver)	Octa-core (4x2.7 GHz Mongoose M3 & 4x1.8 GHz Cortex-A55) - EMEA Octa-core (4x2.8 GHz Kryo 385 Gold & 4x1.7 GHz Kryo 385 Silver) - USA/LATAM, China	Octa-core (4x2.8 GHz Kryo 385 Gold & 4x1.7 GHz Kryo 385 Silver)
MEMORY	GPU	Adreno 630	Mali-G72 MP18 - EMEA Adreno 630 - USA/LATAM, China	Adreno 630
	Card slot	No	microSD, up to 512 GB (uses SIM 2 slot) - dual SIM model only	microSD, up to 512 GB (dedicated slot) - single-SIM model microSD, up to 512 GB (uses SIM 2 slot) - dual-SIM model
	Internal	64/128/256 GB, 6 GB RAM	64/128/256 GB, 4 GB RAM	128 GB, 6 GB RAM or 64 GB, 4 GB RAM
CAMERA	Primary	Dual: 12 MP (f/1.8, 1/2.55", 1.4µm, 4-axis OIS, dual pixel PDAF) + 12 MP (f/2.4, 1/3.4", 1.0µm), 2x optical zoom, dual-LED flash, check quality .	12 MP (f/1.5-2.4, 26mm, 1/2.5", 1.4µm, dual pixel PDAF), OIS, LED flash, check quality .	Dual: 16 MP (f/1.6, 1/3.1", 1.0µm, OIS) + 16 MP (f/1.9, 1/3.1", 1.0µm), laser & PDAF, LED flash, check quality .
	Features	Geo-tagging, touch focus, face detection, HDR, panorama	Geo-tagging, simultaneous 4K video and 9MP image recording, touch focus, face/smile detection, Auto HDR, panorama	Geo-tagging, touch focus, face detection, HDR, panorama
	Video	2160p@60fps, 1080p@30/240fps, check quality .	2160p@60fps, 1080p@240fps, 720p@960fps, HDR, dual-video rec., check quality .	2160p@30/60fps, 1080p@30/60fps, 720p@240fps, HDR, 24-bit/192kHz stereo sound rec., check quality .
	Secondary	20 MP (f/2.0, 0.9µm), 1080p	8 MP (f/1.7, 25mm, 1/3.6", 1.22µm), autofocus, 1440p@30fps, dual video call, Auto HDR	8 MP (f/1.9), 1080p@60fps
SOUND	Alert types	Vibration; MP3, WAV ringtones	Vibration; MP3, WAV ringtones	Vibration; MP3, WAV ringtones
	Loudspeaker	Yes	Yes, with stereo speakers	Yes
	3.5mm jack	No	Yes	Yes
COMMS		<ul style="list-style-type: none"> - Active noise cancellation with dedicated mic - Type-C to 3.5 mm headphone jack adapter 	<ul style="list-style-type: none"> - 32-bit/384kHz audio - Active noise cancellation with dedicated mic 	<ul style="list-style-type: none"> - 32-bit/192kHz audio - DTS-X sound - Active noise cancellation with dedicated mic
	WLAN	Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, DLNA, hotspot	Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot	Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, DLNA, hotspot
	Bluetooth	5.0, A2DP, LE, aptX HD	5.0, A2DP, LE, aptX	5.0, A2DP, LE, aptX HD
	GPS	Yes, with dual-band A-GPS, GLONASS, BDS, GALILEO, QZSS	Yes, with A-GPS, GLONASS, BDS, GALILEO	Yes, with A-GPS, GLONASS, BDS
	NFC	Yes	Yes	Yes
	Infrared port	No	No	No
	Radio	No	FM radio (USA & Canada only)	FM radio
FEATURES	USB	Type-C 1.0 reversible connector	3.1, Type-C 1.0 reversible connector	3.1, Type-C 1.0 reversible connector, USB On-The-Go
	Sensors	Infrared face recognition, fingerprint (rear-mounted), accelerometer, gyro, proximity, barometer, compass	Iris scanner, fingerprint (rear-mounted), accelerometer, gyro, proximity, compass, barometer, heart rate, SpO2	Fingerprint (rear-mounted), accelerometer, gyro, proximity, compass, barometer
	Messaging	SMS(threaded view), MMS, Email, Push Email, IM	SMS(threaded view), MMS, Email, Push Email, IM	SMS(threaded view), MMS, Email, Push Email, IM
	Browser	HTML5	HTML5	HTML5
	Java	No	No	No
		- Fast battery charging (Quick Charge	- Samsung DeX (desktop experience	- WPC&PMA wireless charging (US

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		<div>- Photo/video editor</div> <div>- Document viewer</div>	<div>dependent)</div> <div>- ANT+ support</div> <div>- Bixby natural language commands and dictation</div> <div>- MP4/DivX/XviD/H.265 player</div> <div>- MP3/WAV/eAAC+/FLAC player</div> <div>- Photo/video editor</div> <div>- Document editor</div>	<div>- MP3/WAV/FLAC/eAAC+ player</div> <div>- Photo/video editor</div> <div>- Document editor</div>
BATTERY		Non-removable Li-Po 3400 mAh battery	Non-removable Li-Ion 3000 mAh battery (11.55 Wh)	Non-removable Li-Po 3000 mAh battery
	Stand-by			
MISC	Talk time			
	Colors	Black, Blue, White, Gold	Midnight Black, Coral Blue, Titanium Gray, Lilac Purple, Burgundy Red, Sunrise Gold	New Platinum Gray, New Aurora Black, New Moroccan Blue, Raspberry Rose
	SAR EU			0.24 W/kg (head) 1.47 W/kg (body)
	Price	About 360 EUR	About 840 EUR	About 680 EUR
TESTS	Performance	Basemark OS II: 4283 / Basemark OS II 2.0: 3858 Basemark X: 43285	Basemark OS II: 3329 / Basemark OS II 2.0: 3382 Basemark X: 42645	
	Display	Contrast ratio: Infinite (nominal), 4.086 (sunlight)	Contrast ratio: Infinite (nominal), 4.630 (sunlight)	
	Camera	Compare PHOTO / Compare VIDEO		
	Loudspeaker	Voice 68dB, noise 72dB, ring 82dB	Voice 68dB, noise 74dB, ring 81dB	
	Audio quality	Noise -93.9dB / Crosstalk -93.7dB	Noise -93.4dB / Crosstalk -93.9dB	
	Battery life	86h endurance rating	78h endurance rating	