



## PHONE FINDER

SAMSUNG	LENOVO	ALCATEL	GIONEE
APPLE	XIAOMI	ZTE	VIVO
NOKIA	GOOGLE	TOSHIBA	LEECO
SONY	ACER	VODAFONE	PANASONIC
LG	ASUS	ENERGIZER	HP
HTC	OPPO	XOLO	YU
MOTOROLA	ONEPLUS	LAVA	VERYKOO
HUAWEI	MEIZU	MICROMAX	MAXWEST
MICROSOFT	BLACKBERRY	BLU	PLUM

ALL BRANDS

RUMOR MILL

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## Essential PH-1



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## Samsung Galaxy S9



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## Samsung Galaxy S9+



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### NETWORK

#### Technology

GSM / CDMA / HSPA / EVDO / LTE

#### 2G bands

GSM 850 / 900 / 1800 / 1900

CDMA 800 / 1900

#### 3G Network

HSDPA 850 / 900 / 1700(AWS) / 1900 / 2100 & TD-SCDMA

CDMA2000 1xEV-DO

#### 4G Network

LTE band 1(2100), 2(1900), 3(1800), 4(1700/2100), 5(850), 7(2600), 8(900), 11(1500), 12(700), 13(700), 17(700), 20(800), 21(1500), 25(1900), 26(850), 28(700), 29(700), 30(2300), 38(2600), 39(1900), 40(2300), 41(2500), 42(3500), 43(3700), 66(1700/2100)

#### Speed

HSPA 42.2/5.76 Mbps, LTE-A (4CA) Cat16 1024/150 Mbps, EV-DO Rev.A 3.1 Mbps

#### GPRS

Yes

#### EDGE

Yes

### LAUNCH

#### Announced

2017, May

#### Status

Available. Released 2017, August

### BODY

#### Dimensions

141.5 x 71.1 x 7.8 mm (5.57 x 2.80 x 0.31 in)

#### Weight

185 g (6.53 oz)

#### Build

Front glass, titanium frame, ceramic back

#### SIM

Nano-SIM

GSM / HSPA / LTE

GSM 850 / 900 / 1800 / 1900 - SIM 1 & SIM 2 (dual-SIM model only)

HSDPA 850 / 900 / 1700(AWS) / 1900 / 2100

LTE

HSPA 42.2/5.76 Mbps, LTE-A (4CA) Cat16 1024/150 Mbps

Yes

Yes

Not announced yet

Rumored

147.6 x 68.7 x 8.4 mm (5.81 x 2.70 x 0.33 in)

Front/back glass (Gorilla Glass 5), aluminum frame

Single SIM (Nano-SIM) or Hybrid Dual SIM (Nano-SIM, dual stand-by)

- Samsung Pay (Visa, MasterCard certified)  
- IP68 certified - dust/water proof over 1.5 meter and 30 minutes

GSM / HSPA / LTE

GSM 850 / 900 / 1800 / 1900 - SIM 1 & SIM 2 (dual-SIM model only)

HSDPA 850 / 900 / 1700(AWS) / 1900 / 2100

LTE

HSPA 42.2/5.76 Mbps, LTE-A (4CA) Cat16 1024/150 Mbps

Yes

Yes

Not announced yet

Rumored

157.7 x 73.8 x 8.5 mm (6.21 x 2.91 x 0.33 in)

Front/back glass (Gorilla Glass 5), aluminum frame

Single SIM (Nano-SIM) or Hybrid Dual SIM (Nano-SIM, dual stand-by)

- Samsung Pay (Visa, MasterCard certified)  
- IP68 certified - dust/water proof over 1.5 meter and 30 minutes

	Size	5.71 inches, 85.4 cm <sup>2</sup> (~84.9% screen-to-body ratio)	5.8 inches, 85.4 cm <sup>2</sup> (~84.2% screen-to-body ratio)	6.2 inches, 97.6 cm <sup>2</sup> (~83.8% screen-to-body ratio)
	Resolution	1312 x 2560 pixels (~504 ppi density)	1440 x 2960 pixels, 18.5:9 ratio (~568 ppi density)	1440 x 2960 pixels, 18.5:9 ratio (~531 ppi density)
	Multitouch	Yes, up to 10 fingers	Yes	Yes
	Protection	Corning Gorilla Glass 5	Corning Gorilla Glass 5 - 3D Touch (home button only) - Always-on display	Corning Gorilla Glass 5 - 3D Touch (home button only) - Always-on display
PLATFORM	OS	Android 7.1 (Nougat), planned upgrade to Android 8.1 (Oreo)	Android 8.0 (Oreo)	Android 8.0 (Oreo)
	Chipset	Qualcomm MSM8998 Snapdragon 835	Qualcomm MSM8998 Snapdragon 845	Qualcomm MSM8998 Snapdragon 845
	CPU	Octa-core (4x2.45 GHz Kryo & 4x1.9 GHz Kryo)	Octa-core Kryo 385 (4x2.8 GHz Cortex-A75 & 4x1.8 GHz Cortex-A55)	Octa-core Kryo 385 (4x2.8 GHz Cortex-A75 & 4x1.8 GHz Cortex-A55)
	GPU	Adreno 540	Adreno 630	Adreno 630
MEMORY	Card slot	No	microSD, up to 256 GB (uses SIM 2 slot) - dual SIM model only	microSD, up to 256 GB (uses SIM 2 slot) - dual SIM model only
	Internal	128 GB, 4 GB RAM	64 GB, 4 GB RAM	128 GB, 6 GB RAM or 64 GB, 4 GB RAM
CAMERA	Primary	Dual: 13 MP, f/1.9, phase detection & laser autofocus, LED flash	12 MP (f/1.5, 26mm, 1/2.5", 1.4 µm, Dual Pixel PDAF), phase detection autofocus, OIS, LED flash	Dual: 12 MP (f/1.6, 26mm, 1/2.55", 1.4 µm, Dual Pixel PDAF) + 12MP (f/2.4, 52mm, 1/3.6", 1 µm, AF), OIS, phase detection autofocus, 2x optical zoom, LED flash
	Features	Geo-tagging, touch focus, face detection, HDR	Geo-tagging, simultaneous 4K video and 9MP image recording, touch focus, face/smile detection, Auto HDR, panorama	Geo-tagging, simultaneous 4K video and 9MP image recording, touch focus, face/smile detection, Auto HDR, panorama
	Video	2160p@30fps, 1080p@60fps, 720p@120fps	2160p@30fps, 1080p@60fps, HDR, dual-video rec.	2160p@30fps, 1080p@60fps, HDR, dual-video rec.
	Secondary	8 MP, f/2.2, 2160p@30fps, 1080p@60fps, 720p@120fps	8 MP, f/1.6, autofocus, 1440p, dual video call, Auto HDR	8 MP, f/1.6, autofocus, 1440p, dual video call, Auto HDR
SOUND	Alert types	Vibration; MP3, WAV ringtones	Vibration; MP3, WAV ringtones	Vibration; MP3, WAV ringtones
	Loudspeaker	Yes, with stereo speakers	Yes, with stereo speakers	Yes, with stereo speakers
	3.5mm jack	No	Yes	Yes
		- Active noise cancellation with dedicated mic	- 32-bit/384kHz audio - Active noise cancellation with dedicated mic	- 32-bit/384kHz audio - Active noise cancellation with dedicated mic
COMMS	WLAN	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, hotspot	Wi-Fi 802.11 a/b/g/n/ac, dual-band, Wi-Fi Direct, hotspot
	Bluetooth	5.0, A2DP, EDR, LE	5.0, A2DP, LE, aptX	5.0, A2DP, LE, aptX
	GPS	Yes, with A-GPS, GLONASS	Yes, with A-GPS, GLONASS, BDS, GALILEO	Yes, with A-GPS, GLONASS, BDS, GALILEO
	NFC	Yes	Yes	Yes
FEATURES	Infrared port	No	No	No
	Radio	No	No	No
	USB	Type-C 1.0 reversible connector	3.1, Type-C 1.0 reversible connector	3.1, Type-C 1.0 reversible connector
	Sensors	Fingerprint (rear-mounted), accelerometer, gyro, proximity, compass, barometer	Iris scanner, fingerprint (rear-mounted), accelerometer, gyro, proximity, compass, barometer, heart rate, SpO2	Iris scanner, fingerprint (rear-mounted), accelerometer, gyro, proximity, compass, barometer, heart rate, SpO2
	Messaging	SMS(threaded view), MMS, Email, Push Mail, IM	SMS(threaded view), MMS, Email, Push Mail, IM	SMS(threaded view), MMS, Email, Push Mail, IM
	Browser	HTML5	HTML5	HTML5
	Java	No	No	No
		- Snap-on accessories (optional) - Fast battery charging - XviD/MP4/H.265 player - MP3/WAV/eAAC+/FLac player - Photo/video editor - Document viewer	- Samsung DeX (desktop experience support) - Fast battery charging - Qi wireless charging - ANT+ support - Bixby natural language commands and dictation - MP4/DivX/XviD/H.265 player - MP3/WAV/eAAC+/FLAC player - Photo/video editor - Document editor	- Samsung DeX (desktop experience support) - Fast battery charging - Qi wireless charging - ANT+ support - Bixby natural language commands and dictation - MP4/DivX/XviD/H.265 player - MP3/WAV/eAAC+/FLAC player - Photo/video editor - Document editor
BATTERY		Non-removable Li-Ion 3040 mAh battery	Non-removable Li-Ion 3000 mAh battery (11.55 Wh)	Non-removable Li-Ion 3500 mAh battery (13.48 Wh)
	Stand-by Talk time			
MISC	Colors	Stellar Gray, Ocean Depths, Black Moon, Pure White	Black	Black
	Price	About 500 USD		

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