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|---|---|---|
| **Network** | **Technology:** | GSM / HSPA / LTE |
| | **2G bands:** | GSM 850 / 900 / 1800 / 1900 SIM 1 & SIM 2 |
| | **3G bands:** | HSDPA 850 / 900 / 1700(AWS) / 1900 / 2100 |
| | **4G bands:** | LTE band 1(2100), 2(1900), 3(1800), 20(800), 38(2600), 40(2300) |
| | **Speed:** | HSPA 42.2/5.76 Mbps, LTE-A (6CA) Cat18 1200/200 Mbps |
| | **GPRS:** | Yes |
| | **EDGE:** | Yes |
| **Launch** | **Announced:** | 2018, February |
| | **Status:** | Available. Released 2018, March |
| **Body** | **Dimensions:** | 147.7 x 68.7 x 8.5 mm (5.81 x 2.70 x 0.33 in) |
| | **Weight:** | 163 g (5.75 oz) |
| | **Build:** | Front/back glass (Gorilla Glass 5), aluminum frame |
| | **SIM:** | 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 |
| **Display** | **Type:** | Super AMOLED capacitive touchscreen, 16M colors |
| | **Size:** | 5.8 inches, 84.8 cm2 (~83.6% screen-to-body ratio) |
| | **Resolution:** | 1440 x 2960 pixels, 18.5:9 ratio (~570 ppi density) |
| | **Multitouch:** | Yes |
| | **Protection:** | Corning Gorilla Glass 5 |
| | | HDR10 compliant, 3D Touch (home button only), Always-on display |
| **Platform** | **OS:** | Android 8.0 (Oreo) |
| | **Chipset:** | Exynos 9810 Octa |
| | **CPU:** | Octa-core (4x2.8 GHz Mongoose M3 & 4x1.7 GHz Cortex-A55) |
| | **GPU:** | Mali-G72 MP18 |
| **Memory** | **Card slot:** | microSD, up to 400 GB (uses SIM 2 slot) |
| | **Internal:** | 64 GB, 4 GB RAM |
| **Camera** | **Primary:** | 12 MP (f/1.5-2.4, 26mm, 1/2.5", Dual Pixel PDAF), phase detection autofocus, OIS, LED flash |
| | **Features:** | Geo-tagging, simultaneous 4K video and 9MP image recording, touch focus, face/smile detection, Auto HDR, panorama |
| | **Video:** | 2160p@60fps, 1080p@240fps, 720p@960fps, HDR, dual-video rec. |
| | **Secondary:** | 8 MP (f/1.7, 25mm, 1/3.6"), autofocus, 1440p@30fps, dual video call, Auto HDR |
| **Sound** | **Alert types:** | Vibration; MP3, WAV ringtones |
| | **Loudspeaker:** | Yes, with stereo speakers |
| | **3.5mm jack:** | Yes |
| | | 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 |
| | **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:** | Iris scanner, fingerprint (rear-mounted), accelerometer, gyro, proximity, compass, barometer, heart rate, SpO2 |
| | **Messaging:** | SMS(threaded view), MMS, Email, Push Mail, IM |
| | **Browser:** | HTML5 |
| | | Samsung DeX (desktop experience support), Fast battery charging: (Quick Charge 2.0), Qi/PMA wireless charging (market dependent), 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 3000 mAh battery (11.55 Wh) |