# Samsung Galaxy S10 Specifications

<table>
<thead>
<tr>
<th>NETWORK</th>
<th>Technology</th>
<th>GSM / CDMA / HSPA / EVDO / LTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAUNCH</td>
<td>Announced</td>
<td>2019, February</td>
</tr>
<tr>
<td>Status</td>
<td>Available, Released 2019, March</td>
<td></td>
</tr>
<tr>
<td>BODY</td>
<td>Dimensions</td>
<td>149.9 x 70.4 x 7.8 mm (5.90 x 2.77 x 0.31 in)</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
<td>157 g (5.54 oz)</td>
</tr>
<tr>
<td></td>
<td>Build</td>
<td>Back glass (Gorilla Glass 5), aluminum frame</td>
</tr>
<tr>
<td>SIM</td>
<td>Single SIM (Nano-SIM) or Hybrid Dual SIM (Nano-SIM, dual stand-by)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Samsung Pay (Visa, MasterCard certified)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>IP68 dust/water proof (up to 1.5m for 30 mins)</td>
<td></td>
</tr>
<tr>
<td>DISPLAY</td>
<td>Type</td>
<td>Dynamic AMOLED capacitive touchscreen, 16M colors</td>
</tr>
<tr>
<td></td>
<td>Size</td>
<td>6.1 inches, 93.2 cm² (~88.3% screen-to-body ratio)</td>
</tr>
<tr>
<td></td>
<td>Resolution</td>
<td>1440 x 3040 pixels, 19:9 ratio (~550 ppi density)</td>
</tr>
<tr>
<td></td>
<td>Protection</td>
<td>Corning Gorilla Glass 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HDR10+</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Always-on display</td>
</tr>
<tr>
<td>PLATFORM</td>
<td>OS</td>
<td>Android 9.0 (Pie); One UI</td>
</tr>
<tr>
<td></td>
<td>Chipset</td>
<td>Exynos 9820 (8 nm) - EMEA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Qualcomm SDM855 Snapdragon 855 (7 nm) - USA/LATAM, China</td>
</tr>
<tr>
<td></td>
<td>CPU</td>
<td>Octa-core (2x2.73 GHz Mongoose M4 &amp; 2x2.31 GHz Cortex-A75 &amp; 4x1.95 GHz Cortex-A55) - EMEA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Octa-core (1x2.84 GHz Kryo 485 &amp; 3x2.41 GHz Kryo 485 &amp; 4x1.78 GHz Kryo 485) - USA/LATAM, China</td>
</tr>
<tr>
<td></td>
<td>GPU</td>
<td>Mali-G76 MP12 - EMEA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adreno 640 - USA/LATAM, China</td>
</tr>
<tr>
<td>MEMORY</td>
<td>Card slot</td>
<td>microSD, up to 512 GB (uses SIM 2 slot) - dual SIM model only</td>
</tr>
<tr>
<td></td>
<td>Internal</td>
<td>128/512 GB, 8 GB RAM</td>
</tr>
<tr>
<td>MAIN CAM</td>
<td>Triple</td>
<td>12 MP, f/1.5-2.4, 26mm (wide), 1/2.55&quot;, 1.4µm, Dual Pixel PDAF, OIS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 MP, f/2.4, 52mm (telephoto), 1/3.6&quot;, 1.0µm, AF, OIS, 2x optical zoom</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16 MP, f/2.2, 12mm (ultrawide), 1.0µm</td>
</tr>
<tr>
<td></td>
<td>Features</td>
<td>LED flash, auto-HDR, panorama</td>
</tr>
<tr>
<td></td>
<td>Video</td>
<td>2160p@60fps, 1080p@240fps, 720p@960fps, HDR, dual-video rec.</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>SELFIE CAMERA</th>
<th>Single</th>
<th>10 MP, f/1.9, 26mm (wide), 1.22µm, Dual Pixel PDAF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Features</td>
<td>Dual video call, Auto-HDR</td>
<td></td>
</tr>
<tr>
<td>Video</td>
<td>2160p@30fps, 1080p@30fps</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOUND</th>
<th>Loudspeaker</th>
<th>Yes, with stereo speakers</th>
</tr>
</thead>
</table>
| jack           | Yes         | 32-bit/384kHz audio
                |             | Active noise cancellation with dedicated mic
                |             | Dolby Atmos/AKG sound                   |

<table>
<thead>
<tr>
<th>COMMS</th>
<th>WLAN</th>
<th>Wi-Fi 802.11 a/b/g/n/ac/ax, dual-band, Wi-Fi Direct, hotspot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluetooth</td>
<td>5.0, A2DP, LE, aptX</td>
<td></td>
</tr>
<tr>
<td>GPS</td>
<td>Yes, with A-GPS, GLONASS, BDS, GALILEO</td>
<td></td>
</tr>
<tr>
<td>NFC</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Radio</td>
<td>FM radio (USA &amp; Canada only)</td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>3.1, Type-C 1.0 reversible connector</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>Sensors</th>
<th>Fingerprint (under display), accelerometer, gyro, proximity, compass, barometer, heart rate, SpO2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ANT+</td>
<td>Bixby natural language commands and dictation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Samsung DeX (desktop experience support)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BATTERY</th>
<th>Non-removable Li-Ion 3400 mAh battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charging</td>
<td>Fast battery charging 15W</td>
</tr>
<tr>
<td></td>
<td>Fast wireless charging 15W</td>
</tr>
<tr>
<td></td>
<td>Power bank/Reverse wireless charging 9W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MISC</th>
<th>Colors</th>
<th>Prism White, Prism Black, Prism Green, Prism Blue, Canary Yellow, Flamingo Pink</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAR</td>
<td>0.93 W/kg (head) 0.79 W/kg (body)</td>
<td></td>
</tr>
<tr>
<td>SAR EU</td>
<td>0.48 W/kg (head) 1.59 W/kg (body)</td>
<td></td>
</tr>
<tr>
<td>Price</td>
<td>About 770 EUR</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TESTS</th>
<th>Performance</th>
<th>Basemark OS II: 4539 / Basemark OS II 2.0: 4465 Basemark X: 44097</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Display</td>
<td>Contrast ratio: Infinite (nominal), 4.498 (sunlight)</td>
</tr>
</tbody>
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<tr>
<th>Feature</th>
<th>Specification</th>
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<tr>
<td><strong>Camera</strong></td>
<td>Photo / Video</td>
</tr>
<tr>
<td><strong>Loudspeaker</strong></td>
<td>Voice 82dB / Noise 74dB / Ring 85dB</td>
</tr>
<tr>
<td><strong>Audio quality</strong></td>
<td>Noise -92.2dB / Crosstalk -92.7dB</td>
</tr>
<tr>
<td><strong>Battery life</strong></td>
<td><strong>Endurance rating 79h</strong></td>
</tr>
</tbody>
</table>