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| **NETWORK** | [**Technology**](https://www.gsmarena.com/network-bands.php3) | [GSM / CDMA / HSPA / EVDO / LTE / 5G](https://www.gsmarena.com/samsung_galaxy_s20_fe_5g-10377.php) |
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| **LAUNCH** | [**Announced**](https://www.gsmarena.com/glossary.php3?term=phone-life-cycle) | 2020, September 23 |
| [**Status**](https://www.gsmarena.com/glossary.php3?term=phone-life-cycle) | Available. Released 2020, October 02 |

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| **BODY** | [**Dimensions**](https://www.gsmarena.com/samsung_galaxy_s20_fe_5g-10377.php) | 159.8 x 74.5 x 8.4 mm (6.29 x 2.93 x 0.33 in) |
| [**Weight**](https://www.gsmarena.com/samsung_galaxy_s20_fe_5g-10377.php) | 190 g (6.70 oz) |
| [**Build**](https://www.gsmarena.com/glossary.php3?term=build) | Glass front (Gorilla Glass 3), plastic back, aluminum frame |
| [**SIM**](https://www.gsmarena.com/glossary.php3?term=sim) | Single SIM (Nano-SIM) or Hybrid Dual SIM (Nano-SIM, dual stand-by) |
|  | IP68 dust/water resistant (up to 1.5m for 30 mins) |

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| **DISPLAY** | [**Type**](https://www.gsmarena.com/glossary.php3?term=display-type) | Super AMOLED, 120Hz, HDR10+ |
| [**Size**](https://www.gsmarena.com/samsung_galaxy_s20_fe_5g-10377.php) | 6.5 inches, 101.0 cm2 (~84.8% screen-to-body ratio) |
| [**Resolution**](https://www.gsmarena.com/glossary.php3?term=resolution) | 1080 x 2400 pixels, 20:9 ratio (~407 ppi density) |
| [**Protection**](https://www.gsmarena.com/glossary.php3?term=screen-protection) | Corning Gorilla Glass 3 |
|  | Always-on display |

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| **PLATFORM** | [**OS**](https://www.gsmarena.com/glossary.php3?term=os) | Android 10, upgradable to Android 12, One UI 4.1 |
| [**Chipset**](https://www.gsmarena.com/glossary.php3?term=chipset) | Qualcomm SM8250 Snapdragon 865 5G (7 nm+) |
| [**CPU**](https://www.gsmarena.com/glossary.php3?term=cpu) | Octa-core (1x2.84 GHz Kryo 585 & 3x2.42 GHz Kryo 585 & 4x1.8 GHz Kryo 585) |
| [**GPU**](https://www.gsmarena.com/glossary.php3?term=gpu) | Adreno 650 |

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| **MEMORY** | [**Card slot**](https://www.gsmarena.com/glossary.php3?term=memory-card-slot) | microSDXC (uses shared SIM slot) |
| [**Internal**](https://www.gsmarena.com/glossary.php3?term=dynamic-memory) | 128GB 6GB RAM, 128GB 8GB RAM, 256GB 8GB RAM |
|  | UFS 3.1 |

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| **MAIN CAMERA** | [**Triple**](https://www.gsmarena.com/glossary.php3?term=camera) | 12 MP, f/1.8, 26mm (wide), 1/1.76", 1.8µm, Dual Pixel PDAF, OIS 8 MP, f/2.4, 76mm (telephoto), 1/4.5", 1.0µm, PDAF, OIS, 3x optical zoom 12 MP, f/2.2, 13mm, 123˚ (ultrawide), 1/3.0", 1.12µm |
| [**Features**](https://www.gsmarena.com/glossary.php3?term=camera) | LED flash, auto-HDR, panorama |
| [**Video**](https://www.gsmarena.com/glossary.php3?term=camera) | 4K@30/60fps, 1080p@30/60fps, gyro-EIS |

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| **SELFIE CAMERA** | [**Single**](https://www.gsmarena.com/glossary.php3?term=secondary-camera) | 32 MP, f/2.2, 26mm (wide), 1/2.74", 0.8µm |
| [**Features**](https://www.gsmarena.com/glossary.php3?term=secondary-camera) | HDR |
| [**Video**](https://www.gsmarena.com/glossary.php3?term=secondary-camera) | 4K@30/60fps, 1080p@30/60fps, gyro-EIS |

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| **SOUND** | [**Loudspeaker**](https://www.gsmarena.com/glossary.php3?term=loudspeaker) | Yes, with stereo speakers |
| [**3.5mm jack**](https://www.gsmarena.com/glossary.php3?term=audio-jack) | No |
|  | 32-bit/384kHz audio Tuned by AKG |

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| **COMMS** | [**WLAN**](https://www.gsmarena.com/glossary.php3?term=wi-fi) | Wi-Fi 802.11 a/b/g/n/ac/6, dual-band, Wi-Fi Direct, hotspot |
| [**Bluetooth**](https://www.gsmarena.com/glossary.php3?term=bluetooth) | 5.0, A2DP, LE |
| [**GPS**](https://www.gsmarena.com/glossary.php3?term=gps) | Yes, with A-GPS, GLONASS, BDS, GALILEO |
| [**NFC**](https://www.gsmarena.com/glossary.php3?term=nfc) | Yes |
| [**Radio**](https://www.gsmarena.com/glossary.php3?term=fm-radio) | No |
| [**USB**](https://www.gsmarena.com/glossary.php3?term=usb) | USB Type-C 3.2, USB On-The-Go |

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| **FEATURES** | [**Sensors**](https://www.gsmarena.com/glossary.php3?term=sensors) | Fingerprint (under display, optical), accelerometer, gyro, compass |
|  | Virtual proximity sensing Bixby natural language commands and dictation Samsung Pay (Visa, MasterCard certified) |

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| **BATTERY** | [**Type**](https://www.gsmarena.com/glossary.php3?term=rechargeable-battery-types) | Li-Ion 4500 mAh, non-removable |
| [**Charging**](https://www.gsmarena.com/glossary.php3?term=battery-charging) | Fast charging 25W Fast wireless charging 15W Reverse wireless charging 4.5W USB Power Delivery 3.0 |

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| **MISC** | [**Colors**](https://www.gsmarena.com/glossary.php3?term=build) | Cloud Lavender, Cloud Mint, Cloud Navy, Cloud White, Cloud Red, Cloud Orange |
| [**Models**](https://www.gsmarena.com/glossary.php3?term=models) | SM-G781B, SM-G781B/DS, SM-G781U, SM-G781U1, SM-G781W, SM-G7810, SM-G781N, SM-G781V |
| [**SAR**](https://www.gsmarena.com/glossary.php3?term=sar) | 0.70 W/kg (head)     0.82 W/kg (body) |
| [**SAR EU**](https://www.gsmarena.com/glossary.php3?term=sar) | 0.50 W/kg (head)     1.35 W/kg (body) |
| [**Price**](https://www.gsmarena.com/glossary.php3?term=price) | [$ 494.99 / € 419.33 / £ 429.99 / ₹ 34,849 / C$ 699.99 / Rp 6,899,000](https://www.gsmarena.com/samsung_galaxy_s20_fe_5g-price-10377.php) |

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| **TESTS** | [**Performance**](https://www.gsmarena.com/glossary.php3?term=benchmarking) | AnTuTu: 543986 (v8) GeekBench: 3296 (v5.1) GFXBench: 45fps (ES 3.1 onscreen) |
| [**Display**](https://www.gsmarena.com/gsmarena_lab_tests-review-751p2.php) | [Contrast ratio: Infinite (nominal)](https://www.gsmarena.com/samsung_galaxy_s20_fe_5g-review-2178p3.php) |
| [**Camera**](https://www.gsmarena.com/gsmarena_lab_tests-review-751p5.php) | [Photo](https://www.gsmarena.com/piccmp.php3?idType=1&idPhone1=10377&nSuggest=1) / [Video](https://www.gsmarena.com/vidcmp.php3?idType=3&idPhone1=10377&nSuggest=1) |
| [**Loudspeaker**](https://www.gsmarena.com/gsmarena_lab_tests-review-751p7.php) | [-26.3 LUFS (Good)](https://www.gsmarena.com/samsung_galaxy_s20_fe_5g-review-2178p3.php#lt) |
| [**Battery life**](https://www.gsmarena.com/gsmarena_lab_tests-review-751p6.php) | [Endurance rating 110h](https://www.gsmarena.com/samsung_galaxy_s20_fe_5g-10377.php) |
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