SAMSUNG

# Samsung Galaxy S20 FE 5G SM-G781B/DS 16,5 cm (6.5") Dual SIM Android 10 USB Type-C 6 GB 128 GB 4500 mAh Orange

**Brand :** Samsung

**Product family:** Galaxy

**Product code:** SM-G781BZODEUE

**Product name :** SM-G781B/DS

Samsung Galaxy S20 FE 5G SM-G781B/DS. Display diagonal: 16,5 cm (6.5"), Display resolution: 2400 x 1080 pixels. Processor frequency: 2,8 GHz, Processor type: Qualcomm Snapdragon, Processor: 865. RAM capacity: 6 GB, RAM type: LPDDR5, Internal storage capacity: 128 GB. Rear camera resolution (numeric): 12 MP, Rear camera type: Triple camera. SIM card capability: Dual SIM. Operating system software: Android 10. Battery capacity: 4500 mAh. Product colour: Orange. Weight: 190 g

## Display

| | |
|---|---|
| Display diagonal * | 16,5 cm (6.5") |
| Display technology marketing name | Super AMOLED |
| Panel type | OLED |
| Display glass type | Gorilla Glass |
| Gorilla Glass version | Gorilla Glass 3 |
| Display resolution * | 2400 x 1080 pixels |
| Colour | 16 million colours |
| Native aspect ratio | 20:9 |
| Maximum refresh rate | 120 Hz |
| Display brightness | 420 cd/m² |
| Touch screen type | Capacitive |
| Pixel density | 407 ppi |
| Rounded display corners | ✔ |

## Processor

| | |
|---|---|
| Processor type * | Qualcomm Snapdragon |
| Processor * | 865 |
| Processor number of cores | 8 |
| Processor frequency * | 2,8 GHz |

## Storage

| | |
|---|---|
| RAM capacity * | 6 GB |
| RAM type | LPDDR5 |
| Internal storage capacity * | 128 GB |
| Compatible memory cards * | MicroSD (TransFlash) |
| Maximum memory card size | 1 TB |
| USB mass storage | ✔ |

## Camera

| | |
|---|---|
| Rear camera resolution (numeric) * | 12 MP |
| Second rear camera resolution (numeric) | 12 MP |
| Third rear camera resolution (numeric) | 8 MP |
| Rear camera aperture number | 1,8 |
| Second rear camera aperture number | 2,2 |
| Third rear camera aperture number | 2,4 |

## Network

| | |
|---|---|
| Wi-Fi Direct | ✔ |
| MIMO | ✔ |
| Near Field Communication (NFC) | ✔ |

## Subscription

| | |
|---|---|
| Subscription type * | No subscription |

## Ports & interfaces

| | |
|---|---|
| USB port | ✔ |
| USB connector type | USB Type-C |
| USB version | 3.2 Gen 1 (3.1 Gen 1) |

## Messaging

| | |
|---|---|
| Short Message Service (SMS) | ✔ |
| Multimedia Messaging Service (MMS) | ✔ |
| E-mail | ✔ |

## Navigation

| | |
|---|---|
| GPS | ✔ |
| GLONASS | ✔ |
| BeiDou | ✔ |
| Galileo | ✔ |
| Position location * | ✔ |
| Wi-Fi positioning | ✔ |

## Design

| | |
|---|---|
| Form factor * | Bar |
| Product colour * | Orange |
| Color name | Cloud Orange |
| Protection features | Dust resistant, Water resistant |

## Performance

| | |
|---|---|
| Fast charging | ✔ |
| Wireless charging | ✔ |
| Fingerprint reader | ✔ |
| Face recognition | ✔ |

## Camera

| | |
|---|---|
| Rear camera pixel size | 1,8 μm |
| Second rear camera pixel size | 1,12 μm |
| Third rear camera pixel size | 1 μm |
| Rear camera field of view (FOV) angle | 79° |
| Second rear camera field of view (FOV) angle | 123° |
| Optical zoom | 3x |
| Digital zoom | 30x |
| Front camera type * | Single camera |
| Front camera resolution (numeric) * | 32 MP |
| Front camera aperture number | 2,2 |
| Front camera pixel size | 0,8 μm |
| Front camera field of view (FOV) angle | 81° |
| Rear camera flash * | ✔ |
| Flash type | LED |
| Video capture resolution (max) | 7680 x 4320 pixels |
| Maximum frame rate | 960 fps |
| Resolution at capture speed | 1280x720@30fps, 1920x1080@30fps, 1920x1080@60fps, 3840x2160@30fps, 3840x2160@60fps |
| Video recording modes | 720p, 1080p, 2160p |
| Rear camera type * | Triple camera |
| Auto focus | ✔ |
| Image stabilizer | ✔ |
| Geotagging | ✔ |
| Multi-shot | ✔ |
| Self-timer | ✔ |
| Night mode | ✔ |
| Auto exposure | ✔ |
| Smile detection | ✔ |

## Network

| | |
|---|---|
| SIM card capability * | Dual SIM |
| Mobile network generation * | 5G |
| SIM card type * | NanoSIM |
| 3G standards * | HSDPA, HSPA+, HSUPA, UMTS |
| 4G standard * | LTE-TDD & LTE-FDD |
| Voice over LTE (VoLTE) supported | ✔ |
| Wi-Fi | ✔ |
| Wi-Fi standards | 802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax) |
| Bluetooth * | ✔ |
| Bluetooth version | 5.0 |
| Bluetooth profiles | A2DP, AVRCP, DI, HFP, HID, HOGP, HSP, MAP, OPP, PAN, PBAP |
| aptX technology | ✔ |
| 3G bands supported | 850,900,1800,1900,2100 MHz |
| 4G bands supported | 700,850,900,1800,1900,2100,2300,2600 MHz |
| Tethering (modem-mode) | ✔ |

## Performance

| | |
|---|---|
| Speakerphone | ✔ |
| Voice dialling | ✔ |
| Voice commands | ✔ |
| USB On-The-Go support | ✔ |
| Vibrating alert | ✔ |

## Multimedia

| | |
|---|---|
| Speakers | stereo |
| Audio system | Dolby Atmos |
| Speaker power | 1,2 W |
| Audio formats supported | 3GA, AAC, AMR, APE, AWB, DFF, DSF, FLAC, IMY, M4A, Mid, MIDI, MP3, MXMF, OGA, OGG, OTA, RTTTL, RTX, WAV, WMA, XMF |
| Video formats supported | 3G2, 3GP, ASF, AVI, FLV, M4V, MKV, MP4, WEBM, WMV |
| Voice codecs | AAC, AMR |

## Software

| | |
|---|---|
| Platform * | Android |
| Operating system software * | Android 10 |
| App distribution platform | Google Play |
| Google applications | Google Maps, Google Play |
| Virtual assistant | Samsung Bixby |

## Battery

| | |
|---|---|
| Battery voltage | 3,86 V |
| Removable battery | ✘ |
| Battery capacity * | 4500 mAh |
| Talk time (4G) | 32 h |
| Browsing time (Wi-Fi) | 14 h |
| Browsing time (4G) | 15 h |
| Continuous audio playback time | 81 h |
| Continuous video playback time | 19 h |

## Sensors

| | |
|---|---|
| Proximity sensor | ✔ |
| Accelerometer | ✔ |
| Ambient light sensor | ✔ |
| Gyroscope | ✔ |
| Geomagnetic sensor | ✔ |
| Hall sensor | ✔ |

## Endurance

| | |
|---|---|
| International Protection (IP) code * | IP68 |

## Weight & dimensions

| | |
|---|---|
| Width | 74,5 mm |
| Depth | 8,4 mm |
| Height | 159,8 mm |
| Weight * | 190 g |

## Certificates

| | |
|---|---|
| Head SAR | 0,503 W/kg |
| Body SAR | 1,355 W/kg |
| Extremities SAR (EU) | 3,11 W/kg |

## Packaging content

| | |
|---|---|
| AC adapter included * | ✔ |
| Quick start guide | ✔ |
| Cables included | USB Type-C |
| SIM card ejector pin | ✔ |

**Other features**

| | |
|---|---|
| Touchscreen | ✔ |
| Repairability index | 8.1 |

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