

Here are the full details of the **Samsung Galaxy S21 (256GB)**:

## 1. Design and Display

- **Screen Size:** 6.2 inches
- **Display Type:** Dynamic AMOLED 2X
- **Resolution:** 2400 x 1080 pixels (Full HD+)
- **Aspect Ratio:** 20:9
- **Refresh Rate:** 120Hz adaptive refresh rate (smooth scrolling)
- **HDR10+ Support:** Yes
- **Glass Protection:** Corning Gorilla Glass Victus (front and back)
- **Build:** Aluminum frame with glass front and plastic back (international variants may have glass back)

## 2. Performance

- **Chipset:**
  - **USA Version:** Qualcomm Snapdragon 888 (5nm)
  - **International Version:** Exynos 2100 (5nm)
- **CPU:** Octa-core (1x2.9 GHz Cortex-X1, 3x2.80 GHz Cortex-A78, 4x2.2 GHz Cortex-A55)
- **GPU:**
  - **Snapdragon Version:** Adreno 660
  - **Exynos Version:** Mali-G78 MP14
- **RAM:** 8GB
- **Storage:** 256GB (UFS 3.1, no microSD card expansion)

## 3. Camera

- **Triple Rear Camera Setup:**
  1. **Main Camera:** 12 MP, f/1.8, 26mm (wide), Dual Pixel PDAF, OIS
  2. **Ultra-Wide Camera:** 12 MP, f/2.2, 13mm (120-degree field of view)
  3. **Telephoto Camera:** 64 MP, f/2.0, 29mm (telephoto), PDAF, OIS, 1.1x optical zoom, 3x hybrid zoom
- **Front Camera:** 10 MP, f/2.2, 26mm (wide)
- **Video Recording:**
  - Rear: Up to 8K @ 24fps, 4K @ 60fps, 1080p @ 240fps, 720p @ 960fps (Super Slow-mo)
  - Front: 4K @ 30/60fps, 1080p @ 30fps

## 4. Battery

- **Battery Capacity:** 4000 mAh
- **Charging:**
  - Wired: 25W fast charging (USB Type-C)
  - Wireless: 15W wireless charging

- Reverse Wireless Charging: 4.5W

## 5. Operating System

- **OS:** Android 11, upgradable to Android 13 (One UI 4.1)

## 6. Connectivity

- **5G Support:** Yes, Sub6/mmWave (depending on the region)
- **Wi-Fi:** Wi-Fi 6 (802.11ax)
- **Bluetooth:** Bluetooth 5.0
- **NFC:** Yes
- **USB:** USB Type-C 3.2
- **SIM:** Dual SIM (Nano-SIM and/or eSIM)

## 7. Additional Features

- **In-Display Fingerprint Sensor:** Ultrasonic
- **Face Unlock:** Yes
- **IP68 Water and Dust Resistance:** Yes (up to 1.5 meters for 30 minutes)
- **Stereo Speakers:** Tuned by AKG
- **No 3.5mm Headphone Jack:** Uses USB-C or wireless headphones

## 8. Colors Available

- Phantom Gray
- Phantom White
- Phantom Violet
- Phantom Pink (available in some regions)

## 9. Dimensions and Weight

- **Dimensions:** 151.7 x 71.2 x 7.9 mm
- **Weight:** 169 grams

10. Price Range: Depending on region, the price typically ranges from \$799 to \$849 at launch (might vary based on promotions or deals).