NETWORK Technology

GSM / CDMA / HSPA / EVDO / LTE / 5G

LAUNCH Announced 2021, January 14

Status Available. Released 2021, January 29

BODY Dimensions 151.7 x 71.2 x 7.9 mm (5.97 x 2.80 x 0.31 in)

Weight 169 g (Sub6), 171 g (mmWave) (5.96 oz)

Build Glass front (Gorilla Glass Victus), plastic back, aluminum frame

SIM Single SIM (Nano-SIM) or Dual SIM (2 Nano-SIMs + eSIM, dual stand-by)

IP68 dust/water resistant (up to 1.5m for 30 mins)

DISPLAY Type Dynamic AMOLED 2X, 120Hz, HDR10+, 1300 nits (peak)

Size 6.2 inches, 94.1 cm2 (~87.2% screen-to-body ratio)

Resolution 1080 x 2400 pixels, 20:9 ratio (~421 ppi density)

Protection Corning Gorilla Glass Victus

Always-on display

PLATFORM OS Android 11, One UI 3.1

Chipset Exynos 2100 (5 nm) - International

Qualcomm SM8350 Snapdragon 888 5G (5 nm) - USA/China

CPU Octa-core (1x2.9 GHz Cortex-X1 & 3x2.80 GHz Cortex-A78 & 4x2.2 GHz Cortex-A55) - International

Octa-core (1x2.84 GHz Kryo 680 & 3x2.42 GHz Kryo 680 & 4x1.80 GHz Kryo 680) - USA/China

GPU Mali-G78 MP14 - International

Adreno 660 - USA/China

MEMORY Card slot No

Internal 128GB 8GB RAM, 256GB 8GB RAM

UFS 3.1

MAIN CAMERA Triple 12 MP, f/1.8, 26mm (wide), 1/1.76", 1.8µm, Dual Pixel PDAF, OIS

64 MP, f/2.0, 29mm (telephoto), 1/1.72", 0.8µm, PDAF, OIS, 1.1x optical zoom, 3x hybrid zoom

12 MP, f/2.2, 13mm, 120˚ (ultrawide), 1/2.55" 1.4µm, Super Steady video

Features LED flash, auto-HDR, panorama

Video 8K@24fps, 4K@30/60fps, 1080p@30/60/240fps, 720p@960fps, HDR10+, stereo sound rec., gyro-EIS

SELFIE CAMERA Single 10 MP, f/2.2, 26mm (wide), 1/3.24", 1.22µm, Dual Pixel PDAF

Features Dual video call, Auto-HDR

Video 4K@30/60fps, 1080p@30fps

SOUND Loudspeaker Yes, with stereo speakers

3.5mm jack No

32-bit/384kHz audio

Tuned by AKG

COMMS WLAN Wi-Fi 802.11 a/b/g/n/ac/6, dual-band, Wi-Fi Direct, hotspot

Bluetooth 5.0, A2DP, LE

GPS Yes, with A-GPS, GLONASS, BDS, GALILEO

NFC Yes

Radio FM radio (Snapdragon model only; market/operator dependent)

USB USB Type-C 3.2, USB On-The-Go

FEATURES Sensors Fingerprint (under display, ultrasonic), accelerometer, gyro, proximity, compass, barometer

Samsung DeX, Samsung Wireless DeX (desktop experience support)

Bixby natural language commands and dictation

Samsung Pay (Visa, MasterCard certified)

BATTERY Type Li-Ion 4000 mAh, non-removable

Charging Fast charging 25W

USB Power Delivery 3.0

Fast Qi/PMA wireless charging 15W

Reverse wireless charging 4.5W

MISC Colors Phantom Gray, Phantom White, Phantom Violet, Phantom Pink

Models SM-G991B, SM-G991B/DS, SM-G991U, SM-G991U1, SM-G991W, SM-G991N, SM-G9910

SAR 0.74 W/kg (head) 1.08 W/kg (body)

SAR EU 0.46 W/kg (head) 1.51 W/kg (body)

Price $ 487.00 / € 692.99 / £ 569.99 / ₹ 64,990 / C$ 1,013.21 / Rp 12,999,000

TESTS Performance AnTuTu: 584055 (v8)

GeekBench: 3238 (v5.1)

GFXBench: 60fps (ES 3.1 onscreen)

Display Contrast ratio: Infinite (nominal)

Camera Photo / Video

Loudspeaker -26.4 LUFS (Good)

Battery life

Endurance rating 93h