

PHONE COMPARISON
2 devices


ONEPLUS • 2020

OnePlus 8


SAMSUNG • 2021

Samsung Galaxy A03

Rows marked on the left differ between the devices.

Launch

3

Announced	14 Apr 2020	26 Nov 2021
Released	21 Apr 2020	21 Jan 2022
Status	Available	Available

Network

5

2G bands	R-GSM-900, DCS-1800, E-GSM-900, GSM-850, P-GSM-900, T-GSM-900	DCS-1800, R-GSM-900, P-GSM-900, E-GSM-900, GSM-850, T-GSM-900
3G bands	B25 (1900 MHz), B3 (1800 MHz), B2 (1900 MHz), B20 (800 MHz), B19 (800 MHz), B5 (850 MHz), B26 (850 MHz), B8 (900 MHz), +1 more	B8 (900 MHz), B5 (850 MHz), B26 (850 MHz)
4G bands	B1 (2100 MHz), B42 (3500 MHz), B13 (700 MHz), B3 (1800 MHz), B28 (700 MHz), B41 (2500 MHz), B12 (700 MHz), B26 (850 MHz), +16 more	B1 (2100 MHz), B7 (2600 MHz), B5 (850 MHz), B20 (800 MHz), B3 (1800 MHz), B8 (900 MHz), B41 (2500 MHz), B28 (700 MHz), +2 more
5G bands	n3 (1800 MHz), n1 (2100 MHz), n28 (700 MHz), n7 (2600 MHz)	—
SIM	Dual SIM (Nano-SIM)	Dual SIM (Nano-SIM) Single SIM (Nano-SIM)

Body

8

Height	160.2 mm	164.2 mm
Width	72.9 mm	75.9 mm
Thickness	8 mm	9.1 mm
Weight	180 g	196 g
Colors	Glacial Green, Onyx Black, Interstellar Glow, Polar Silver	Blue, Red, Black

Back material	Glass	Plastic
Frame material	Aluminum	Plastic
QWERTY keyboard	No	No

 Platform		2
OS	Android 10	Android 11
Chipset	Snapdragon 865 5G	—

 Memory		3
Memory	8GB RAM, 128GB 12GB RAM, 256GB	3GB RAM, 32GB 4GB RAM, 32GB 4GB RAM, 64GB 4GB RAM, 128GB
Dedicated card slot	No	Yes
Card slot	—	microSDXC

 Display		9
Size	6.55"	6.5"
Resolution width	1080 px	720 px
Resolution height	2400 px	1600 px
Pixel density	402 ppi	270 ppi
Refresh rate	90 Hz	—
High refresh rate	No	No
Display area	103.6 cm²	102 cm²
Screen-to-body ratio	88.7%	81.8%
Technology	Fluid AMOLED	PLS TFT

 Main camera		5
Cameras	48MP, f/1.8, wide, OIS, PDAF 16MP, f/2.4, ultrawide 2MP, f/2.4, macro	48MP, f/1.7, wide 2MP, depth
Flash	Dual-LED	LED
Video	1080p@30fps	1080p@30fps
HDR	Yes	No
Panorama	Yes	No

 Selfie camera		4
Cameras	16MP, wide, AF	5MP, f/2, standard, AF
Video	1080p@30fps	—
HDR	Yes	No

Pop-up camera	No	No
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 Sound		3
3.5mm jack	No	Yes
Stereo speakers	No	No
Loudspeaker	Yes	Yes

 Sensors		7
Fingerprint	under display	—
Gyroscope	Yes	No
Compass	Yes	No
Barometer	No	No
Heart rate	No	No
Accelerometer	Yes	Yes
Proximity	Yes	Yes

 Connectivity		7
Wi-Fi	Wi-Fi 4 (802.11n) (72–600 Mbit/s) 802.11b (1–11 Mbit/s) 802.11a (6–54 Mbit/s) Wi-Fi 6E (802.11ax) (600–9608 Mbit/s) Wi-Fi 5 (802.11ac) (433–6933 Mbit/s) 802.11g (6–54 Mbit/s) Wi-Fi 6 (802.11ax) (600–9608 Mbit/s)	802.11g (6–54 Mbit/s) Wi-Fi 6E (802.11ax) (600–9608 Mbit/s) Wi-Fi 4 (802.11n) (72–600 Mbit/s) 802.11a (6–54 Mbit/s) Wi-Fi 6 (802.11ax) (600–9608 Mbit/s) 802.11b (1–11 Mbit/s) Wi-Fi 5 (802.11ac) (433–6933 Mbit/s)
Bluetooth	Bluetooth 5.1	Bluetooth 5.0
USB	USB On-The-Go	USB microUSB 2.0
GPS	Yes	Yes
NFC	Yes	No
Infrared port	No	No
FM radio	No	Yes

 Battery		5
Capacity	4300 mAh	5000 mAh
Type	Li-Po	Li-Po
Charging power	30 W	—
Removable	No	No
Wireless charging	No	No



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<https://technofam.com/compare?devices=oneplus-8,galaxy-a03>