

The comparison of Fairphone 3 and Fairphone 3+

The tech spec		
	Fairphone 3	Fairphone 3+
Identification		
Manufacturer	Fairphone	Fairphone
Model name	FP3	FP3
Product name	Fairphone 3	Fairphone 3+
TAC	35781109	35781109
Design		
Color	Dark Translucent	Solid Black
Dimensions (L x W x T, mm)	158 x 71.8 x 9.89	158 x 71.8 x 9.89
Weight (g)	189	189
Display		
Technology	IPS	IPS
Size (inches)	5.65	5.65
Size (pixels)	2160x1080	2160x1080
Aspect ratio	18:9	18:9
Density (PPI)	427	427
Protection grade	Gorilla Glass 5	Gorilla Glass 5
No. of colors	16 M	16 M
Rear Camera		
Resolution (MP)	12MP	48MP sensor (Quad Bayer) / 12MP output
Sensor size (1/inches)	1/2.55	1/2.25
Aperture	F1.8	F1.79
Autofocus	Yes	Yes
Autofocus type	PDAF	PDAF
Sensor model	IMX363	S5KGM1SP03-FGX9
Optical image stabilization	No	No
Flash	Yes	Yes
Flash type	Dual LED	Dual LED
Digital zoom	Up to 8x	Up to 8x
HDR support	Yes	Yes 0.8um, 8000x6000 (48M pixels)
Max supported video	3840x2160p (4K UHD) @ 30 fps,	1.6um, 4000x3000 (12M output) (4K
Recording resolution	1920x1080p @ 120 fps, 1280x720p @ 30 fps	UHD) @ 30 fps, 1920x1080p @ 120 fps, 1280x720p @ 30 fps
Front Camera		
Resolution (MP)	8	16M
Sensor size (1/inches)	1/4"	1/3.1"
Aperture	F2.0	F2.0
Optical image stabilization	No	No
Flash	No	No
Digital zoom	Up to 8x	Up to 8x
HDR support	Yes	Yes
Performance		
SoC	Qualcomm Snapdragon 632	Qualcomm Snapdragon 632
Processor type	64-bit Octa-Core	64-bit Octa-Core
Processor speed (GHz)	up to 1.8	up to 1.8
RAM (GB)	4	4
Integrated memory (GB)	64	64
GPU	Qualcomm Adreno 506 650 MHz	Qualcomm Adreno 506 650 MHz
External memory support	Yes, microSD (up to 400GB)	Yes, microSD (up to 400GB)
Connectivity		
Wi-Fi multiband support	Yes, 2.4 and 5 GHz	Yes, 2.4 and 5 GHz
Wi-Fi standards support	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac

Wi-Fi Direct support	Yes	Yes
Bluetooth	Yes, v5.0	Yes, v5.0
NFC	Yes	Yes
USB standard support	Yes, 2.0	Yes, 2.0
USB connector format	Type-C	Type-C
Jack	Yes, 3.5mm	Yes, 3.5mm
SIM standard	Nano SIM (4FF)	Nano SIM (4FF)
Dual SIM support	Yes	Yes
OS		
Version	Android 9 (Pie)	Android 10
Network		
2G (GSM, GPRS, EDGE)		
Type	Class 33	Class 33
Supported frequencies (MHz)	850 / 900 / 1800 / 1900	850 / 900 / 1800 / 1900
3G (HSPA+)		
HSDPA	Cat 24	Cat 24
HSUPA	Cat 6	Cat 6
Supported frequencies (MHz)	800 / 850 / 900 / 1700 / 1900 / 2100	800 / 850 / 900 / 1700 / 1900 / 2100
Max download speed (Mbps)	42	42
Max upload speed (Mbps)	5.76	5.76
4G (LTE)		
Type	Cat. 13 Uplink, Cat. 7 Downlink	Cat. 13 Uplink, Cat. 7 Downlink
MIMO	Yes, 4x2	Yes, 4x2
Carrier Aggregation	Yes, 2CA	Yes, 2CA
VoLTE	Yes	Yes
VoWi-Fi	Yes	Yes
Supported bands	1 / 2 / 3 / 4 / 5 / 7 / 8 / 13 / 20 / 26	1 / 2 / 3 / 4 / 5 / 7 / 8 / 13 / 20 / 26
Max download speed (Mbps)	300	300
Max upload speed (Mbps)	150	150
Battery		
Type	Li-ion	Li-ion
Capacity (mAh)	3040 typ., 3000 min.	3040 typ., 3000 min.
Charging time (hours)	3.5	3.5
Battery duration, idle (hours)	300	300
Battery duration, phone call (hours)	20	20
Removable	Yes	Yes
Sensors & Location		
GNSS support	Yes	Yes
GNSS standards	GPS, Glonass, Galileo	GPS, Glonass, Galileo
Assisted GPS support	Yes	Yes
Ambient Light	Yes	Yes
Accelerometer	Yes	Yes
Gyroscope	Yes	Yes
Proximity	Yes	Yes
Compass	Yes	Yes
Fingerprint	Yes	Yes
Multimedia		
Supported video codecs	HEVC, H.264, VC-1, MPEG-4, DivX, MPEG-2, H.263, VP8, VP9	HEVC, H.264, VC-1, MPEG-4, DivX, MPEG-2, H.263, VP8, VP9
Supported audio codecs	PCM playback, AAC/AAC+/eAAC+, MP3, WMA (v9, v10), WMA Lossless, WMA Pro 10, AMR-NB, AMR-WB, FLAC, ALAC, Vorbis, AIFF, APE	PCM playback, AAC/AAC+/eAAC+, MP3, WMA (v9, v10), WMA Lossless, WMA Pro 10, AMR-NB, AMR-WB, FLAC, ALAC, Vorbis, AIFF, APE
External speaker loudness (dB)	94 @ 10cm	96 @ 10cm
Miracast support	Yes	Yes
Other		
Max SAR head (W/kg@10g)	0.388	0.411
Max SAR body (W/kg@10g)	1.405	1.405
Max SAR limb (W/kg@10g)	2.537	2.537

The material, colour, and finishing

Fairphone 3

Fairphone 3+

Device

Rear cover	Translucent 0% PCR	Solid black 50% PCR
Battery cover	Translucent 0% PCR	Solid black 50% PCR
Main camera lens	Black	Black with light grey outline
Selfie camera lens	Black	Black with light grey outline
FP company logo	White mylar	Dipping printing Glossy black
NFC icon	Printed on the inside	Engraved icon in Matt finishing

Modules

Plastic housing	Solid black 50% PCR → 75%	Solid black 75% PCR
Main camera	Black	Black with light grey outline
Top module	Black	Black with light grey outline
Speaker - engraved icon	One circle around speaker icon	Two circles around speaker icon

Recycled/bio-based plastic

Part	plastic weight in part	raw material recycle/bio %	recycle/bio % in phone	plastic weight in part	raw material recycle/bio %	recycle/bio % in phone
Battery Cover	12.93	0%	0.00%	11.89	50%	15.95%
Rear Cover	14.28	0%	0.00%	13.76	50%	18.46%
Display module	3.63	0%	0.00%	3.63	0%	0.00%
Battery	3.94	0%	0.00%	3.94	0%	0.00%
Bottom module	2.59	50%	2.99%	1.04	75%	2.09%
Speaker module	0.94	0%	0.00%	0.94	0%	0.00%
Camera module	2.16	50%	2.49%	1.00	75%	2.01%
Top module	2.85	50%	3.29%	1.07	75%	2.15%
(g)	43.32		8.77%	37.27		40.66%

Visuals

Device



Packaging

Hier ben ik.
Here I am.
Hier bin ich.
Je suis là.
Aquí estoy.
Eccomi qui.

FAIRPHONE
Fairphone 3

Hier ben ik.
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