

Model	M11	M11 Pro
CPU	Exynos 7872 14nm	Exynos 7872 14nm
CPU operating frequency	2GHz (A73×2) , 1.6GHz (A53×4)	2GHz (A73×2) , 1.6GHz (A53×4)
CPU No. of cores	6	6
DAC	AK4493EN×2	AK4497EN×2
Operating system	Customized Android 7.0	Customized Android 7.0
Input method	Multi-touch screen	Multi-touch screen
Keyboard	Virtual QWERTY keyboard	Virtual QWERTY keyboard
Special features	Android 7.0, No SRC restriction, All to DSD, 2.5+3.5+4.4 output, Gesture control	Android 7.0, No SRC restriction, All to DSD, 2.5+3.5+4.4 output, Gesture control
User interface	Customized/FiiO Music	Customized/FiiO Music
Chips used	SoC: Samsung Exynos 7872, DAC: AK4493EQ*2, FPGA: A3P030, LPF: OPA1642×2,	SoC: Samsung Exynos 7872, DAC: AK4497EQ*2, FPGA: A3P030, LPF: OPA1642×3
WiFi	Bluetooth chip: SAMSUNG S5N5C10B01-6330	Bluetooth chip: SAMSUNG S5N5C10B01-6330
Bluetooth	4.2	4.2
Bluetooth transmit	LDAC/aptX/aptX HD/SBC (Available when playing on M11 or using M11 as USB DAC)	LDAC/aptX/aptX HD/SBC (Available when playing on M11 or using M11 as USB DAC)
Bluetooth receive	SBC/LDAC	SBC/LDAC
DLNA	Supports Windows for now, will support more in the future	Supports Windows for now, will support more in the future
USB	TYPE C Two-way USB2.0	TYPE C Two-way USB2.0
HWA (LHDC)	Available when playing on M11 or using M11 as USB DAC	Available when playing on M11 or using M11 as USB DAC
AirPlay	Supported	Supported
FiiO Link	Supported	Supported
Display size	5.15 inches	5.15 inches
Display type	IPS Hi-Res incell screen	IPS Hi-Res incell screen
Resolution	1440×720	1440×720
Touchscreen	10-finger multi-touch	10-finger multi-touch
Number of colours	16M	16M
Viewable angle	Full-view	Full-view
Pixel density(PPI)	312	312
RAM	3GB	3GB
Storage expansion type	Micro SD card x 2	Micro SD card x 2
Maximum storage expansion	Theoretically 4TB (with each micro SD card supporting 2TB)	Theoretically 2TB (only one micro SD card slot)
ROM	32GB	64GB
ROM available to user	About 25GB	About 52GB
Buttons	Physical button+Side volume scroll+Touch screen	Physical button+Side volume scroll+Touch screen
Headphone out (PO)	3.5 mm headphone jack+2.5mm balanced headphone jack+4.4mm balanced headphone jack	3.5 mm headphone jack+2.5mm balanced headphone jack+4.4mm balanced headphone jack
Line out (LO)	3.5 mm port (shared PO)	3.5 mm port (shared PO)
Button customization	N/A	N/A
USB	Two-way TYPE C USB2.0 (Charging/Data transmisson/USB DAC/USB Audio)	Two-way TYPE C USB2.0 (Charging/Data transmisson/USB DAC/USB Audio)
SPDIF output	3.5mm port (shared PO) , DSD64/128, 384kHz/32bit, DoP/D2P	3.5mm port (shared PO) , DSD64/128, 384kHz/32bit, DoP/D2P
Color	Black	Black
Dimensions	70.5mm*130mm*15.5mm	70.5mm*130mm*16.5mm
Weight	about211g	about232g
Volume control	120 steps +/- button control	120 steps +/- button control
Recommended headphone impedance	16~300Ω	16~300Ω
Treble control	N/A	N/A
Balance control	N/A	N/A
Equalizer	10-band EQ (±6dB), 9 presets+custom preset	10-band EQ (±6dB), 9 presets+custom preset
Gain control	L/H	L/H
Balance control	±5dB	±5dB
USB DAC	Asynchronous 384kHz/32bit	Asynchronous 384kHz/32bit
USB Audio	DSD64/128/256, 384kHz/32bit, DoP/D2P/Native	DSD64/128/256, 384kHz/32bit, DoP/D2P/Native
USB power adapter	QC2.0/3.0 quick charger, PD2.0 charger, DC 12V/1.5A, 9V/2A, 5V/2A recommended	QC2.0/3.0 quick charger, PD2.0 charger, DC 12V/1.5A, 9V/2A, 5V/2A recommended
Charging indication	Large charging icon shows on display when it's off, small charging icon shows on upper right of display when it's on	Large charging icon shows on display when it's off, small charging icon shows on upper right of display when it's on
Battery indication	Yes (accurate battery % readings)	Yes (accurate battery % readings)
Battery capacity	3800mAh 3.8V Li-polymer battery supporting quick charge	4370mAh 3.8V Li-polymer battery supporting quick charge
Charging time	< 2.5h (DC 12V/1.5A) < 3h (DC 5V/2A)	< 2.5h (DC 12V/1.5A) < 3h (DC 5V/2A)
Deep sleep time	50 days	55 days
Battery life 1	3.5mm headphone output: > 13h	3.5mm headphone output: > 9.5h
Volume	60	60
Screen	OFF	OFF
EQ	OFF	OFF
Load	M3 open earbuds (27 Ω)	M3 open earbuds (27 Ω)
Test File	MP3 44.1kHz/17bit	MP3 44.1kHz/17bit
Battery life 2	2.5mm balanced output: > 9h	2.5mm balanced output: > 10h
Volume	49	49
Screen	OFF	OFF

EQ	OFF	OFF
Load	M3 open earbuds (27 Ω)	M3 open earbuds (27 Ω)
Test File	MP3 44.1kHz/17bit	MP3 44.1kHz/17bit
Battery life 3	Bluetooth output: > 48h (LDAC)	Bluetooth output: 55 (LDAC)
Volume	60	60
Screen	OFF	OFF
Load	BTR3+FH1	BTR3+FH1
Test File	MP3 44.1kHz/17bit	MP3 44.1kHz/17bit
Firmware Upgrade	Supports both via zip file and OTA	Supports both via zip file and OTA
Recording	N/A	N/A
A-B Repeat	N/A	N/A
OTG Transfer	N/A	N/A
Clock	Supported	Supported
Font size	supported	supported
Third-party apps support	Supports any app	Supports any app
Line output specifications		
THD+N	< 0.001% (1kHz/10kΩ)	< 0.0006% (1kHz/10kΩ)
Frequency response	10Hz~90 kHz (-3dB)	5Hz~86kHz (-3dB)
Channel separation	> 108dB	> 108dB
SNR	≥ 115dB (A-weighted)	≥ 119dB (A-weighted)
Noise floor	< 6μV (20k low pass)	< 2μV
Line level	1.95V	1.95V
FM Index		
Output power	N/A	N/A
THD+N	N/A	N/A
SNR	N/A	N/A
Frequency response	N/A	N/A
Covered region	N/A	N/A
<b>Headphone out specifications 1 (3.5mm port)</b>		
Output power 1	≥ 255mW (16Ω / THD+N < 1%)	≥ 294mW (16Ω / THD+N < 1%)
Output power 2	≥ 195mW (2.5V) (32Ω / THD+N < 1%)	≥ 200mW (32Ω / THD+N < 1%)
Output power 3	≥ 22mW (300Ω / THD+N < 1%)	≥ 22mW (300Ω / THD+N < 1%)
Frequency response	10Hz~90 kHz (-3dB)	5Hz~86kHz (-3dB)
SNR	≥ 118dB (A-weighted)	≥ 118dB (A-weighted)
Output impedance	< 1Ω	≤ 1.1Ω
THD+N	< 0.003% (1kHz/32Ω)	< 0.00084% (1kHz/32Ω)
Separation	> 72dB	> 72dB (1kHz/32Ω) > 113dB (No load)
Noise floor	< 5μV (20k low pass)	< 3μV
<b>Headphone out specifications 2 (2.5mm port)</b>		
Output power 1	≥ 480mW (16Ω / THD+N < 1%)	≥ 460mW (16Ω / THD+N < 1%)
Output power 2	≥ 550mW (4.2V) (32Ω / THD+N < 1%)	≥ 550mW (32Ω / THD+N < 1%)
Output power 3	≥ 88.5mW (300Ω / THD+N < 1%)	≥ 88.5mW (300Ω / THD+N < 1%)
Frequency response	10Hz~90 kHz (-3dB)	5Hz~86kHz (-3dB)
SNR	≥ 118dB (A-weighted)	≥ 119dB (A-weighted)
Output impedance	< 2Ω	≤ 2.4Ω
THD+N	< 0.002% (1kHz/32Ω)	< 0.00108% (1kHz/32Ω)
Separation	> 107dB	> 108dB (1kHz/32Ω) > 115dB (No load)
Noise floor	< 7μV (20k低通)	< 4μV
<b>File format support</b>		
Lossless:	DSD: DSD64/128/256 ( ".iso" , ".dsf" , ".dff" ) , dst	DSD: DSD64/128/256 ( ".iso" , ".dsf" , ".dff" ) , dst
	DXD: 352.8K	DXD: 352.8K
	APE FAST/High/Normal: 384kHz/24bit (MAX)	APE FAST/High/Normal: 384kHz/24bit (MAX)
	APE Extra High: 192kHz/24bit (MAX)	APE Extra High: 192kHz/24bit (MAX)
	APE Insane: 96kHz/24bit (MAX)	APE Insane: 96kHz/24bit (MAX)
	Apple Lossless: 384kHz/32bit (MAX)	Apple Lossless: 384kHz/32bit (MAX)