

General Specifications			
Name/Model	M21	Hardware solution	SoC: Qualcomm Snapdragon 680, DAC: CS43198*4, Amp: OPA1692*2+SGM8262-2*2
Working mode	Android/Pure music/AirPlay/USB DAC/Bluetooth Receiving		
Color	Titanium gold/Dark blue	Weight	About 193g
Dimensions	About 68x121x17mm	Volume control type	Button control
Display	4.7-inch (750x1334) bezel-less screen	Internal storage/available capacity (ROM)	64GB/About 52GB
RAM	4GB	Adaptive impedance	PO: 8~350Ω
Memory card	Single microSD card expansion, up to 2TB in theory		BAL: 8~350Ω
Channel balance	L20~R20 (0.5dB per level)		
Buttons and Ports			
Buttons	Power button*1; Multifunction button*1; Volume button*2; Play/Pause button*1; Previous track*1; Next track*1	USB	Type-C USB3.0*1 (charging/data transmission)*Type-C POWER IN*1 (charging/independent power supply port)
Toggle switch	HOLD switch*1; D.MODE switch*1	Headphone out	Standard 3.5mm
Line output	Standard 3.5mm (shared PO)	BAL headphone out	Standard 4.4mm
BAL line output	Standard 4.4mm (shared BAL)	COAX headphone out	Standard 3.5mm (shared PO)
Exposed contacts	Connect to cassette-style protective case		
Special functions			
WiFi	2.4GHz/5GHz, supports DLNA, AirPlay, WiFi song transfer, Roon Ready, etc.	Bluetooth transmission (5.0)	AAC/SBC/aptX/aptX HD/LDAC/LHDC
Bluetooth reception (5.0)	SBC/AAC/LDAC	FIIO Link	Android supports WiFi and Bluetooth control, iOS supports Bluetooth control
MQA	Supports MQA full decoding	ALL TO DSD	Supported
EQ adjustment	10-band dynamic EQ adjustment (±12dB), built in 8 types of preset EQ, self-define EQ	System navigation mode	Supports gesture navigation, 2-button navigation and 3-button navigation
Double tap to wake up	Supported	Power off timers	Supports Sleep/Idle power off
	USB DAC: Supports up to 384kHz/32bit; DSD256 (Native)	Firmware upgrade	Supports upgrade from local storage/memory card/OTA
Max supported sampling rate	Local decoding: Supports up to 384kHz/32bit; DSD256 (Native) USB Audio: 768kHz/32bit; DSD512 (supports DoP/D2P/Native) Coaxial output: Supports up to 384kHz/24bit; DSD128 (DOP)		

Power Supply Parameters			
Power supply	Supports D2.0 and PD3.0 fast charging	Charging time	About 1.5h (PD3.0 fast charging mode)
Battery life and test conditions:			
3.5mm headphone out: 15 hours			
Volume level	44	Gain level	High gain
Display status	OFF	Playing track and format	MP3 44kHz/16bit
EQ	OFF	Load	32Ω
4.4mm headphone out: 12.5 hours			
Volume level	33	Gain level	High gain
Display status	OFF	Playing track and format	MP3 44kHz/16bit
EQ	OFF	Load	32Ω
Audio Parameters			
Parts of performance and parameters of PO (3.5mm, USB DAC, Super High Gain mode)			
Output power	L+R≥480mW+480mW (16Ω, THD+N<1%)	Output impedance	<1Ω
	L+R≥405mW+405mW (32Ω, THD+N<1%)	Crosstalk	≥74dB
	L+R≥45mW+45mW (300Ω, THD+N<1%)	Peak output voltage	10.6Vp-p
SNR	≥124dB (A-weighted)	THD+N	<0.0003% (1kHz/-4dB@32Ω)
Frequency response	20Hz~85kHz: attenuation<2dB	Noise floor	<2uV (A-weighted)
	20Hz~20KHz: attenuation<0.02dB	Dynamic range	≥124dB (A-weighted)
Parts of performance and parameters of PO (3.5mm, USB DAC, High Gain mode)			
Output power	L+R≥380mW+380mW (16Ω, THD+N<1%)	Output impedance	<1Ω
	L+R≥290mW+290mW (32Ω, THD+N<1%)	Crosstalk	≥74dB
	L+R≥35mW+35mW (300Ω, THD+N<1%)	Peak output voltage	9.5Vp-p
SNR	≥123dB (A-weighted)	THD+N	<0.0004% (1kHz/-4dB@32Ω)
Frequency response	20Hz~85kHz: attenuation<2dB	Noise floor	<2.1uV (A-weighted)
	20Hz~20KHz: attenuation<0.02dB	Dynamic range	≥123dB (A-weighted)
Parts of performance and parameters of LO			
THD+N	<0.0005% (1kHz/-5dB@10KΩ)	SNR	≥122dB (A-weighted)
Crosstalk	≥111dB	Noise floor	<1.6uV (A-weighted)
Frequency response	20Hz~85kHz: attenuation<1.8dB	Line output level	1.9Vrms
	20Hz~20KHz: attenuation<0.02dB	Dynamic range	≥122dB (A-weighted)
Parts of performance and parameters of BAL headphone out (4.4mm, USB DAC, Super High Gain mode)			
Output power	L+R≥540mW+540mW (16Ω, THD+N<1%)	Output impedance	<1.5Ω
	L+R≥950mW+950mW (32Ω, THD+N<1%)	Crosstalk	≥109dB
	L+R≥185mW+185mW (300Ω, THD+N<1%)	Peak output voltage	21.2Vp-p
SNR	≥126dB (A-weighted)	THD+N	<0.0005% (1kHz/-12dB@32Ω)
Frequency response	20Hz~85kHz: attenuation<2dB	Noise floor	<2.7uV (A-weighted)
	20Hz~20KHz: attenuation<0.03dB	Dynamic range	≥125dB (A-weighted)
Parts of performance and parameters of BAL headphone out (4.4mm, USB DAC, High Gain mode)			
Output power	L+R≥600mW+600mW (16Ω, THD+N<1%)	Output impedance	<1.5Ω
	L+R≥720mW+720mW (32Ω, THD+N<1%)	Crosstalk	≥109dB
	L+R≥90mW+90mW (300Ω, THD+N<1%)	Peak output voltage	15Vp-p
SNR	≥125dB (A-weighted)	THD+N	<0.0005% (1kHz/-8dB@32Ω)
Frequency response	20Hz~85kHz: attenuation<2dB	Noise floor	<2.7uV (A-weighted)
	20Hz~20KHz: attenuation<0.03dB	Dynamic range	≥124dB (A-weighted)
Parts of performance and parameters of BAL LO			
THD+N	<0.0003% (1kHz/-0dB@10KΩ)	SNR	≥126dB (A-weighted)
Crosstalk	≥103dB	Noise floor	<1.9uV (A-weighted)
Frequency response	20Hz~85kHz: attenuation<1.8dB	Line output level	3.9Vrms
	20Hz~20KHz: attenuation<0.02dB	Dynamic range	≥125dB (A-weighted)