

SHENZHEN WELLDY TECHNOLOGY CO.,LTD

Product Specifications

Product Model		E100		Date created		2020.11.02		Doc. Version		V1.0	
Product function and configuration											
Function		BT、AUX、TWS、TF、MIC									
BT Chip		Action_ATS2819				BT Version		V5.0			
Power amplifier chip		FT2925				Decoding Format		MP3 WAV APE FLAC			
Battery		3.7V/2200mAh				IP Water		ipx7			
Speaker Driver		φ 45mm 4 Ω /6W*2				Product Dimensions		90mm*94mm*110mm			
Operation Instructions:											
1	POWER	Short press	Short press MODE to switch: BT, TF, AUX,								
		Long Press	1. In the shutdown state, long press for 2 seconds to turn on 2. In the power-on state, press and hold for 2 seconds to power off 3. Long press for 5 seconds to clear the pairing information and return to the default volume with a beep, it will automatically shut down 4. When the machine is abnormal or crashes, press and hold for 8 seconds, the machine will automatically reset and shut down and power off								
		Double Press	1. In the state of Bluetooth connection, double-click to disconnect the current connection 2. In disconnected Bluetooth connection: double-click to connect to the last disconnected mobile phone								
2	V-/Prev	Short press	Volume Down (16 levels in total)								
		Long Press	Previous song , Long press in AUX mode to decrease the volume								
3	Play/Pause	Short Press	1、Music playback status: play, pause function 2、When there is an incoming call: short press to answer the call 3、When you're receiving the call: short press to hang up the phone call								
		Long Press	1、When there is an incoming call: long press to refuse the call 2、Press 2 seconds to enter TWS connection, once connected, long press to disconnect TWS connection								
		Double Press	1、When it's connected via Bluetooth to your phone: double press to call back the last call								
4	V+/Next	Short press	Volume Up (16 levels in total)								
		Long Press	Next song , Long press in AUX mode to increase the volume								
Indicator Light decription											
BT mode		1、Bluetooth is not connected: The white light flashes quickly 2、Bluetooth is connected: The white light keeps on 3、Music playback: The white light off 4、Pause: The white light keeps on									
TF mode		1、Music playback: The white light flashes slowly 2、Pause: The white light keeps on									
AUX mode		1、Music playback: The white light off 2、Pause: The white light keeps on									
Charging		1. Charging: the current battery indicator lights turn on in turn 2. Fully charged: the power indicator is all on									
Eectrical Parameter											
Function		NO	Project				Standard		Unit	Equipment	
AUX IN	1	Total harmonic distortion PO=0.5W (THD+N)				0.48		%	AP(AST-2)		
	2	input resistance				≥10KΩ		Ω			
	3	Input sensitivity (THD=10%)				800		mV			
	4	SNR (Po=MAX)				77		dB			
	5	Frequency response				70Hz-12KHz		Hz			
	6	THD = 1% Output Power				4.3		W			
	7	THD =10%Total harmonic distortion output power				限幅4.3W 1%THD		W			
	8	Degree of separation				71dB		dB			
BT@Apple iPad	1	Version				5.0+EDR		VER	BT Test Fixture and AP		
	2	Protocol specification(A2DP、HFP、HSP)				3		SET			
	3	BT transmit power				4dBm					
	4	BT receiving sensitivity				-88dBm					
	5	Total harmonic distortion PO=0.5W (THD+N)				0.44		%			
	6	Input sensitivity (THD=10%)				800mV		mV			
	7	SNR (Po=MAX)				80dB		dB			
	8	Frequency response				70Hz-20KHz		Hz			
	9	THD = 1% Output Power				4.3		W			
	10	THD =10%Total harmonic distortion output power				限幅4.3W 1%THD		W			
	11	Degree of separation				61		dB			
	12	Working frequency				2.402~2.480GHz		2.4GHz			
Others	1	Low battery warning voltage				3.4		V	Voltmeter, Ammeter		
	2	Automatic shutdown voltage				3.4		V			
	3	Automatic shutdown time without playing				10		min			
	4	Shutdown power consumption current				≤60		uA			
	5	charging current				1000		mA			
	6	charging time				2.5~3.5		H			
	7	Playing time @50% volume				12.3		H			
	8	Playing time @100% volume				3		H			
	9	BT wireless transmission distance				10		m			
	10	TWS distance				10		m			
	11	Working temperature				-10°~55°		°C			
	12	ESD discharging (touch)				≥4		KV			
Important materials	1	Speaker driver		Size	45mm		mm	Voltmeter, Audio signal generator			
	2			Power	4 Ω 6W		W/Ω				
	3			F0	135		Hz				
	4			Frequency response	135-20KHZ		Hz				
	5	lithium ion battery		Model/Size	18650		mm	Voltmeter, Ammeter, Volume divider, Battery internal resistance tester			
	6			Voltage/Capacity	2200mAh3.7V		V/mAh				
	7			Internal resistance	<100mR		mΩ				
	8			Factory voltage	3.75-3.95		V				
	9			Static self-consumption	10		uA				
	10	PCBA		environmentally-friendly, FR-4, double-sided, 1.0mm thick, copper thickness 1 ounce, Lead-free spray tin, through hole cover oil, Blue oil coated and white printed. Size: 56.5*70*1.0mm							
	11	microphone		Sensitivity-36 — -40db sound pressure110db SRN 60db							

