


TQ53 Product Specification

PRODUCT MODEL	TQ53	Creation Date	2025	version	V1.0	Ex-factory unit price:	40 USD	MOQ for OEM	1000 sets
Product Features and Configuration									
function	AUX,USB,BT,MIC			Default startup	not have				
Bluetooth solution	BP104882			Bluetooth version	V5.3				
Power amplifier chip	SGM4703			decodable	MP3				
battery	18650 lithium battery 7.4V/5100mAh			Waterproof grade	NC				
Horn specifications	3-inch bass 4 Ω 20W, 1-inch treble 6 Ω 10W			Product size	L 241 *H 169 *122mm				
Product weight	2000g			Product Color	Black/White				
Key function operation instructions:									
1	MIC-VOL	rotate	1. Adjust microphone volume from 0-16						
2	MIC-REVERB	rotate	1. Adjust microphone reverberation 0-16						
4	MAIN-VOL	rotate	1. Adjust the total volume from 0-16						
5	BASS	Short press	1. Sound effect switching: Bass mode, Vocal mode, Standard mode (default);						
6		Long press							
7	Play/Pause	Short press	1. In music playback mode: play and pause functions.						
8		double click	1. Next song						
9		Three strikes	1. Previous song						
10	POWER	Long press	1.2 seconds on/off.						
11	MODE	Short press	1.BT. USB. AUX.						
12		Long press	1. In the connected state: Long press for 2 seconds to disconnect the Bluetooth connection. 2. In the Bluetooth disconnected state: Long press for 2 seconds to reconnect to the last disconnected phone.						
13	RESET (headphone jack)	Short press	1. In case of system crash, reset after power failure						
Indicator light description:									
Bluetooth mode:		1. Bluetooth not connected: Bluetooth indicator light flashes rapidly 2. Bluetooth connected: Bluetooth indicator light is constantly on 3. Playing music: The Bluetooth indicator light is constantly on. 4. Pause music: The Bluetooth indicator light is constantly on.							
AUX/USB mode:		1. Playing music: The mode indicator light is constantly on. 2. Pause music: The mode indicator light is constantly on.							
other:									
Low power:		1. Voltage ≤ 6.4V, alarm every 1 minute (perform 60 second software stabilization), immediately shut down after 3 alarms. 2. Voltage ≤ 6.2V, only prompt once (perform 60 second software stabilization), then turn off. 3. Voltage ≤ 6.2V, unable to turn on. 4. The last battery light flashes							
NTC protection:		1. Four battery lights are flashing simultaneously.							
Automatic shutdown:		1. The automatic shutdown time for Bluetooth without connection or playback is 10 minutes.							
Sound prompt:		1. The volume of the prompt sound is 40% of the maximum volume. 2. It prompts the sound to fade in and out.							
Automatic reconnection:		1. Bluetooth automatic reconnection.							
Audio parameters	1	Total harmonic distortion	PO=0.5W(THD+N) ≤ 1%	0.3	%	Audio analyzer/sound testing system			
	2	Input Sensitivity	1KHz/700mV	88	dB				
	3	Signal to Noise Ratio	1KHz/0dB(PO=MAX) ≥ 70dB	80	dB				
	4	Frequency response	20Hz-20KHz/ZW	50Hz-20KHz	Hz				
	5	Maximum output power of mid low frequency	1KHz/0dB/±10%W	20W	W				
	6	Maximum output power of high pitch	10KHz/0dB/±10%W	2.6W (nominal 10W)	W				
	7	Maximum output power		60W	W				
	8	Maximum output power distortion	1KHz/0dB ≤ 10%	1	%				
	9	Resolution	10KHz/0dB ≥ 60dB	NC	dB				
other	1	USB output		5V/0.5A	V/A	voltmeter ammeter			
	1	Low power prompt voltage		6.4	V				
	2	Automatic shutdown voltage		6.2	V				
	3	Shutdown power consumption current		≈ 20	uA				
	4	Charging voltage¤t		5V/2.5A, 6V/2A, 7V/2A	V/A	timer			
	5	charging time		2.0h	h_min				
	6	No automatic shutdown time for playback		10	min				
	7	Play time 50% volume	Play California Hotel 7min 12s version	6: 25	h/min				
	8	Play time 100% volume	Play California Hotel 7min 12s version	1: 58	h/min				
	9	Bluetooth wireless transmission distance		10	m	Meter ruler			
	11	Working temperature range		0°-45°	°C	High and low temperature box			
	12	ESD discharge (contact)		≥4KV	KV	Laboratory testing			
accessory									
Host * 1, instruction manual * 1, 3.5-3.5 audio cable * 1, wireless microphone * 2, microphone clip * 1									