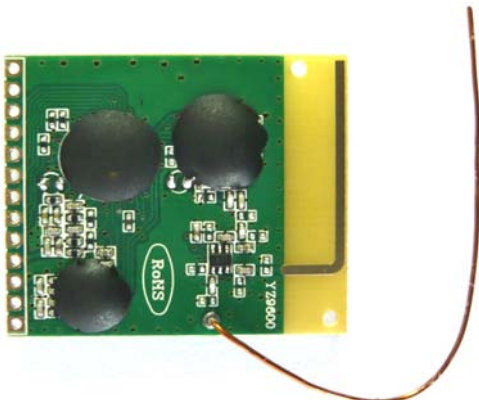


***2.4G Multifunction Wireless
Headphone Module Specification
YZ9600 and YZ9602***

V1.1 2010/10/08

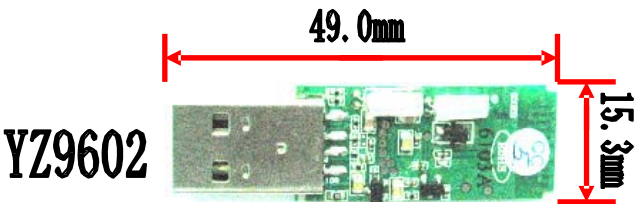
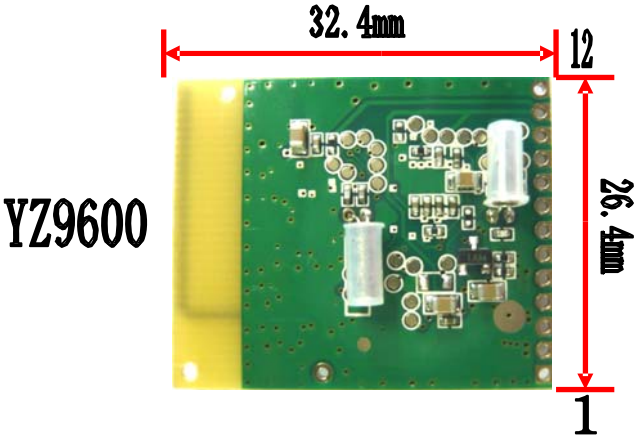


YZ9600



YZ9602

Specification Revision History		
Version	Content	Date
V1.0	Original Version	2010/08/08



RECEIVER MODULE_YZ9600 PIN DEFINITION AND RATING

<i>Pin No</i>	<i>Pin Name</i>	<i>Description</i>	<i>Rating</i>
13	GND	Ground	
12	+3.3V	Power supply	+3.3V
11	Vdet	Low voltage alarm sense input	+2.2V~+3.5V
10	Mute	Audio mute on/off input	-0.3V~+3.5V
9	Sleep	Module sleep control input	-0.3V~+3.5V
8	Vol-	Volume down	-0.3V~+3.5V
7	Vol+	Volume up	-0.3V~+3.5V
6	Play/Pause	Play/Pause key input	-0.3V~+3.5V
5	LED	LED driver output	<10mA
4	MIC IN	Connect to positive terminal of MIC The negative terminal of MIC should be connected to AGND	
3	AGND	Microphone and Speaker GND	
2	SPKL	Left channel speaker output	V _{p-p} =1.4V
1	SPKR	Right channel speaker output	V _{p-p} =1.4V

1. RECEIVER MODULE_YZ9600 SPECIFICATION

<i>Parameter</i>	<i>Min</i>	<i>Typ</i>	<i>Max</i>	<i>Unit</i>
<i>Supply Voltage(+3.3V)</i>			3.3V	<i>Volt</i>
<i>Operation Current</i> <i>(VBUS = VBAT = 3.8V)</i>	38	40	45	<i>mA</i>
<i>Sleep Current</i>		200		<i>uA</i>
<i>Mic Sampling Rate</i>		16		<i>KHz</i>
<i>A/D Resolution</i>		10		<i>bits</i>
<i>SNR of Mic Circuit</i>	50	55		<i>dB</i>
<i>3dB Voice BW</i>	60		6500	<i>Hz</i>
<i>Mic channels</i>		1		
<i>Audio THD+N(0dB@1KHz)</i>		0.1%	0.5%	
<i>Audio output SNR</i>	55	62		<i>dB</i>
<i>Audio Resolution</i>		16		<i>bit</i>
<i>Audio Sample Rate</i>		48		<i>KHz</i>
<i>Audio Latency</i>		64		<i>mS</i>
<i>Audio data compression</i>		yes		
<i>Audio Channels</i>		2		
<i>L/R Channels Separation</i>	55	62		<i>dB</i>
<i>Audio output Band(with 32ohm Loading)</i>	20		22000	<i>Hz</i>
<i>Audio output Range</i>			1400	<i>mV(p-p)</i>
<i>Operating Frequency</i>	2403		2479	<i>MHz</i>
<i>RF-channels</i>		77		
<i>RX Sensitivity</i>		-85		<i>dBm</i>
<i>Channel spacing</i>		1		<i>MHz</i>
<i>Air Data Rate</i>		2		<i>Mbps</i>
<i>Modulation</i>		GFSK		
<i>Radiated Power</i>			-15	<i>dBm</i>
<i>Operation Range</i>		10		<i>Meters/light of sight</i>

2. TRANSMITTER MODULE_YZ9602 PIN DEFINITION AND RATING

Pin No	Pin Name	Description	Rating
1	Vbus	Power supply	+4.5V~+5.5V
2	D+	USB D+ terminal	
3	D-	USB D- terminal	
4	GND	Ground	

3. TRANSMITTER MODULE_YZ9602 SPECIFICATION

Parameter	Min	Typ	Max	Unit
Supply Voltage	4.5	5.0	5.5	Volt
Operation Current		38		mA
Audio Resolution		16		bit
Audio Sample Rate		48		KHz
Audio data compression		yes		
Audio Channels		2		
Audio Input Type		USB2.0(Full Speed) Isochronous mode		
Operating Frequency	2403		2479	MHz
RF-channels		77		
Channel spacing		1		MHz
Air Data Rate		2		Mbps
Modulation		GFSK		
Radiated Power			-10	dBm
Operation Range		10		Meters/light of sight
Antenna Type				PCB printed antenna

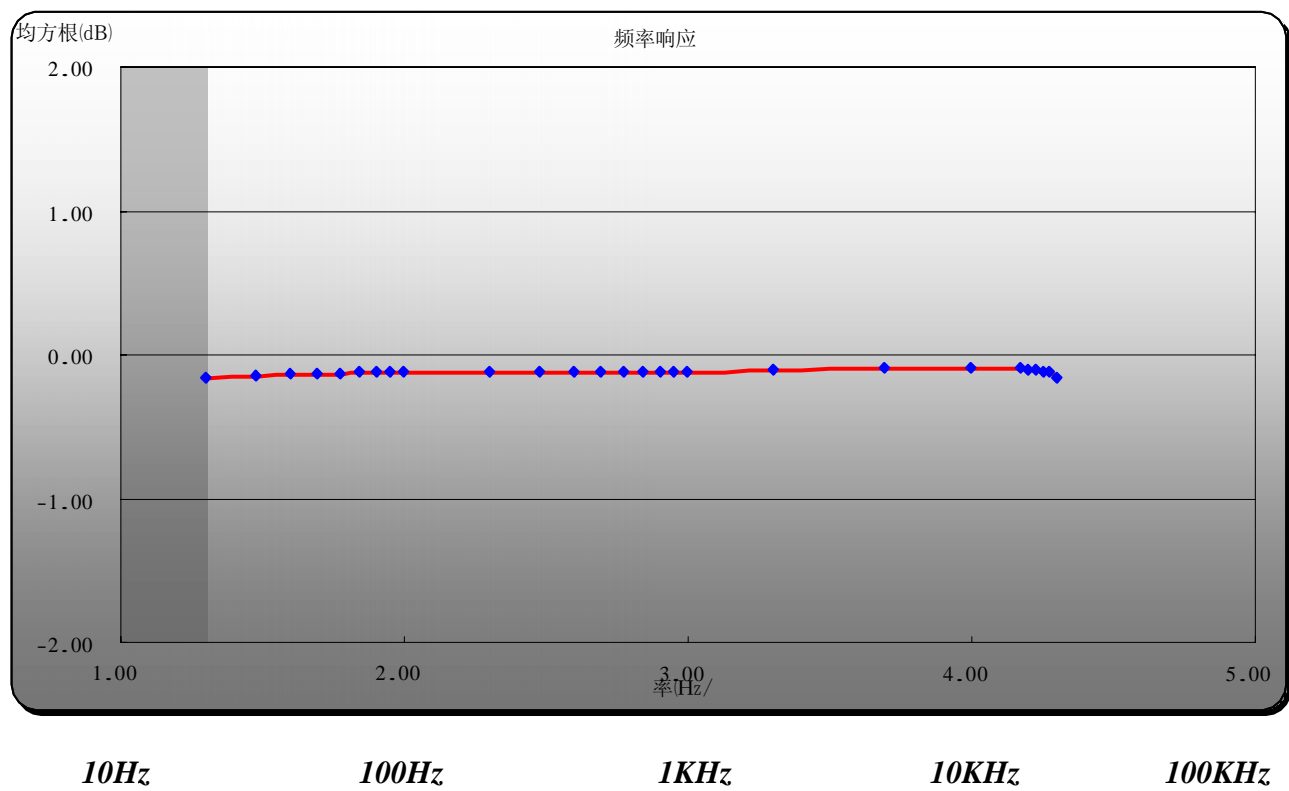
4. FUNCTIONS DESCRIPTION

- YZ9600 is the receiver module (headset side), the transmitter side could be YZ9602. With YZ9602, only digital signal from USB is the audio source.
- The MIC function of YZ9600 is operable only when the transmitter side is connected to USB port. The MIC function is automatically activated when a 2-way conversion is to go, and deactivated when the conversion is over. During conversion, the audio playing switches to mono mode.
- When MIC function is not activated, one transmitter (YZ9602) can send audio signals to 2 receiver modules (YZ9600) simultaneously without causing interference. This feature suits application for which multi-users share a signal audio source.
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5. FUNCTIONS KEY CONNECTION DESCRIPTION

<i>keystroke Apellation</i>	<i>Functions Description</i>
<i>Power on/off</i>	<i>Switch the module between normal operation mode and standby mode</i>
<i>(Vol+)+(Vol-)</i>	<i>Used for ID pairing. Pressing the key again will abort the ID pairing operation</i>
<i>Vol+</i>	<i>Keys for volume adjustment</i>
<i>Vol-</i>	<i>Keys for volume adjustment</i>
<i>Mute</i>	<i>Key for muting the audio output</i>
<i>Play “+” Vol+</i>	<i>Prev</i>
<i>Play “+” Vol-</i>	<i>Next</i>
<i>ON/OFF “+” Vol-</i>	<i>Stop</i>
<i>Play</i>	
<i>Mute “+” Sleep</i>	<i>MIC Mute</i>

6. FREQUENCY RESPONSE GRAPH



Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter module is authorized to be used in other devices only by OEM integrators without further transmitter testing. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user manual of the end product.

End Product Labeling

The final end product must be labeled in a visible area with the following:

For YZ9600 module

"Contains TX FCC ID: YY5YZ9600 " or "Contains FCC ID: YY5YZ9600"

For YZ9602 module

"Contains TX FCC ID: YY5YZ9602 " or "Contains FCC ID: YY5YZ9602"