

IP NETWORK AUDIO & INTERCOM SYSTEM

Architectural & Engineering Specifications

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System Features

General

The system shall be an IP network compatible intercom system that employs packet audio technology. It shall be capable of connecting exchanges, IP network audio adapters, IP amplifiers, IP active loudspeakers, IP paging stations and various interface units to a local area network (LAN), wide area network (WAN) or fiber-optic network. The system shall be designed to allow duplex conversation between stations, paging broadcasts, timely broadcasts, background music broadcasts, etc. Up to 5,000 IP stations, intercom panels and various interface units shall be capable of being connected per system. The system shall feature an echo cancelling function that prevents acoustic feedback and echo in order to make possible full-duplex hands-free conversations between stations. The system shall feature separate IP station with intercom and IP station with several intercom panels for both standard and economy options. Additionally, the use of IP stations shall allow the construction of system that can operate without an exchange. The system shall could be constructed over the existing network system or dedicated network system. Both centralized control and decentralized control of the system shall be possible using a PC sever or several PC servers with dedicated ITC software installed.

System Programming

System programming shall be accessible to the contractor and the end user to reconstruct of the system vary from needs. System programming shall be accessible from a Windows PC computer on the same Ethernet network as the intercom exchange, running the dedicated setup software. Setup software shall be protected by a password. Stations that can be connected directly to the network shall be accompanied by the system's dedicated CD-ROM software. Limited programming feature shall be available through a web browser shall enable users to change network settings, to know the current operation status and line status and to view operation and stream logs. (Recommended browsers: Internet Explorer 6/Internet Explorer 7/Internet Explorer 8)

Dialing

Dialing a station number of two to six digits in length shall establish an immediate communications link between two stations within a system. The number of dialing digits shall be established using the system setup software.

Station Numbering and Naming

It shall be possible to assign or change station numbers and alphanumeric names via the setup a software. A simple programming sequence shall be used without the need to open, disable or disassemble the system hardware.

Reception Mode

In this system either of the following two reception modes shall be selectable:*Sequential response (Master-to-Master System)*. This method shall mainly be used by master stations and suitable for "Master-to-Master" systems that enable free calling. Its main applications shall include communication and paging, and responses to calls shall be made on a first-come-first served basis. *Selective response (Master-to-Sub System)*. This method shall mainly be used by substations or door stations and shall be suitable for "Master-to-Sub" systems in which many substations call a master station.

Call from Substations

Pressing the substation's call button shall call up the preprogrammed master station or analog telephone connected to the telephone interface unit.

Emergency Calls

The door station and substation shall allow emergency calls to be made by performing emergency call-up operation. The master station receiving the emergency call shall sound an emergency call tone and provide an emergency call display by indicator and by message both.

Door station

The door station shall be have different options for indoor use and outdoor use, which allow emergency call to be made by pressing the button. While additional service inquiry call shall be allowed to made when service button is pressed. Two different door station which integrate with and without encoder and decoder are available for different solutions.

Priority Calls

Eight different priority levels shall be cable of being assigned to door stations and substations, and calls from such stations shall be displayed on the called master station in order of such priority.

Standard Features (No Programming Required)

Automatic Line Release

The system shall release the speech path if dialing is not completed within five seconds.

Camp on Busy

A calling party shall be able to wait or "camp-on" if the called station is busy. Once the called party becomes available, the camped-on party shall be automatically connected.

Push to Talk and Release to Listen

On way conversation shall be available by using the PUSH-TO-TALK key. Releasing the PUSH-TO-TALK key shall reverse the one way conversation. The PUSH-TO-TALK key shall have precedence over the voice switched mode.

Microphone-VOX

A master station's microphone shall be mutable during conversation. This function shall hold a call in progress without interruption and without forcing the user to re-establish the call.

Auto-Dialing (Single Digit Dialing)

The multifunctional master station shall have the ability to enable preprogrammed Auto Dial key operation of up to 20 digits with the touch of a single button.

Recall

A master station shall be able to redial the last conversation partner by pressing a designated key.

Selectable Features (Enabled Through Programming)

Paging and Response

- Select Paging Group (Zone) Up to 500 groups (zones) shall be pre-programmed using the setup software.
- Group Paging (Zone Paging) Only one group (zone) shall be selected for paging.
- Selective Paging This function allows paging to up to 500 groups (zones).
- All Call Paging This function shall allow simultaneous paging to all programmed paging groups (zones)
- Emergency All-Group Paging This function shall terminate all concurrent conversations, paging and other ongoing operations, allowing all stations and units designated as paging output destinations to be simultaneously paged.

Paging Methods

- Station Paging Paging of individual stations shall be possible. However, only IP stations shall be capable of being pre-programmed by the setting software for precedence priority when pages and normal calls are simultaneously received.
- PA Paging by Way of External PA Equipment This function shall allow paging to be initiated through PA equipment connected to the exchange's paging output terminals or the multi-interface or audio interface unit's audio output terminals.
- External Input Paging This function shall allow audio or music from externally connected equipment to be broadcast by way of the multi-interface and audio interface units.

Station Paging Reception Mode

If a paged party dials a paging response number at a nearby station, that party shall then be directly connected to the station where the page initiated.

One-Touch Dialing

A master station shall have the ability to dial up to 32 digits by the touch of one button. Then simply pressing an abbreviated number shall enable dial operations such as paging activation and call transfer.

Unanswered Calls

- No-Answer Call When a call is received at a station programmed for "No-Answer Call Forwarding", if no response is made from a specified period of time, the call shall be automatically transferred to another pre-designated station.
- Busy Call When the designated station to which a call was transferred is busy, the call shall be automatically transferred to the next designated station, and this shall continue in series until a free line is found.
- Call Forwarding When a call is received at a station programmed for "Call Forwarding", the call shall be automatically transferred to another pre-designated station without sounding a call tone. Either of the two following modes for placing the station in call forwarding mode shall be selectable: 1) One that instantly sets the station for the call forwarding mode by manually designating the station to which a call is to be transferred. 2) One in which the station is automatically placed in the call forwarding mode when the pre-programmed time is reached.

Dial Operation

The following selection shall be made possible to determine dialing sequences for station dialing and paging response.

- Station dialing numbers shall be independent of connected exchange number or other hardware

configuration. Station numbering shall be programmable as two to six digits in length.

- Paging zone numbering shall be programmed as single, double or triple digit.
- Paging response shall be accomplished by pressing the paging response key or by pressing the paging response key plus the zone number.

Group Blocking

The system shall support the inclusion of stations into any of 500 groups. These groups shall be prohibited from calling or paging each other unless specifically allowed via system programming.

Group Remote Response

The system shall support remote response groups. This feature shall enable stations so programmed to respond to calls to any station within the same remote response group.

Status Monitor

The system shall support scan monitor groups. Each master station shall be able to select any one of up to four arbitrary groups of up to 100 pre-programmed stations per group for auditory monitoring.

Executive Priority

When a called party is busy, the caller shall be able to interrupt the conversation. The original call shall be terminated once the new conversation is established. This function shall be selectable on a per station basis via the programming master station.

Programmable Station Numbers

Station dialing numbers shall be programmed and shall be independent of connected exchange number or other hardware configuration. Any number having the pre-selected number of digits (2-6), and not duplicated in the system, shall be usable.

Restricted Access

Stations with access to All-Call Paging and Group-Paging (Zone Paging) shall be capable of being limited.

Time-Out of Conversation, Paging, or Unanswered Call

Time-out settings shall be available, per exchange, to optionally and independently limit the duration of conversations, paging announcements, and unanswered calls. The available settings shall range from 10 to 999 seconds in 10 second increments.

Annunciation

- Dry Contact Closures The system shall provide dry contact closure that can be controlled from the master stations, or activated upon call-in by designated master stations or sub-stations, for use in driving custom annunciator panels indicating calling party or hospital waiting status, to trigger CCTC camera call up, or other custom functions. User shall have the choice of one-shot make or latching make/break operation when controlling the contact closure manually. Install the multi-interface units or the direct select unit as required.
- Open Collector Outputs The system shall provide open collector outputs at designated master station for use in triggering annunciator lamps or related equipment to indicate a call incoming and in-use status. Install the industrial-use master station as required.

Door Control

- Dry contact closures The system shall provide dry contact closures that can be controlled from the master stations for use in door remote control or other custom functions. User shall have the choice

of one-shot make or latching make/break operation. Duration of one-shot make closure shall be software programmable from 1 to 9 seconds. Install the multi-interface unit of the direct select unit as required.

- **Open Collector Outputs** The system shall provide open collector outputs at designated door station for use in door remote control or other custom functions. Duration of door trigger shall be software programmable from 1 to 9 seconds. Install door station as required.

BGM

The system shall have six ways of music broadcasting: 1) External source player input to the PC, the software will transfer the analog data into digital data 2) Live broadcast when collect output from the PC sound card 3) File broadcast by using the software built-in media player 4) Scheduled broadcast: the software is built-in weekly timer, you can create scheduled program for automatic broadcasting. 5) End-user speaker zone broadcast, the end user could select its own program through remote control from the library in the PC server 6) End-user could local input music or microphone to its own speaker zones.

PBX Interface

Connecting the remote telephone paging interface shall allow calls or conversation between the network intercom system and the PBX extension telephones or paging from the PBX extension telephones.

Time Signal

External sound sources or those built-into the audio interface unit shall be capable of being broadcast according to preset schedules.

Audio Trigger

If audio input to a pre-programmed door station's microphone meets set conditions (detection time or signal level), the door station shall initiate alarm operation (making a call to the designated master station).

Time Correction

Clocks of all equipment connected to the system shall be capable of being synchronized with PC server.

Calling Outside Line Telephone

The use of telephone paging interface shall allow calls to be made from master/door station and substations to outside line telephones.

Call from an Outside Line Telephones

There shall be two modes for receiving calls from an outside line telephones, Direct-in line and direct-in dialing. Direct-in line: mode for calling up to four pre-designated stations. Direct-indialing: mode for calling a desired station by dialing that station number.

Absent Transfer to Outside Line Telephone

Outside line telephones shall be cable of being designated as master station absent call transfer destinations.

Paging from Outside Line Telephones

Paging from outside line telephones to intercom stations shall be possible if the group number is dialed by the telephone via telephone paging interface unit.

Telephone Paging Interface Control Password

It shall be possible to use a password to prevent any outside line telephone from freely accessing the scan monitor or external equipment control functions via the telephone paging interface.

Door Remote Control

This function shall make it possible for when the master station engaged in ongoing conversation with a door station to easily execute door lock control through a contact output.

Recording

A recording Network Intercom PC Software connected to the audio interface unit shall be capable of recording the conversations and paging calls of master stations, intercom telephones, and outside line telephones.

Automatic Daylight Saving Time Correction

The system shall allow all clocks to be automatically reset at the pre-programmed times and dates of the start and end of daylight saving time.

T-6700R

IP Network Audio & Intercom System Software



Features

- * Compatible with Windows 2000, Windows XP and Windows 7 operation system
- * Standard TCP/IP communication protocol for industrial applications
- * Parameters set up center and administrator management center
- * Built-in decoder to transfer analog signal through sound card into digital
- * Head of the network audio system
- * Collect and delivery sound over the internet
- * Built-in weekly timer to program over music or sound files to automatically broadcast to designated zone at pre-set time
- * Built-in system status monitor to surveillance each unit's working conditions
- * Direct manual selected priority music broadcast or zone paging
- * License registration protection and log in protection
- * Remote set up and easy maintenance
- * Support more than 7,000 units of network audio adapter
- * Support more than 1,000 tasks transmitted simultaneously
- * Nine priority levels for different users
- * Customized-mapped connection diagram is available
- * Easy to inter-work with third party system like CCTV, door access system and home automation system

T-6701

IP Network Audio Adapter



Features

- * 19 rack mount IP/TCP network audio adapter in 2U height
- * Built-in single channel TCP/IP decoder
- * Decode digital audio data to analog amplifier
- * Heart of IP background music, zone paging & voice alarm system
- * Built-in 5 inch LCD screen display the IP address and status in English
- * Supplied a remote control over music selection, IP address change and volume attenuation
- * A serial IP address write in communication port
- * Numeric keys on front panel for convenient operation
- * 4 channel line outputs to amplifiers
- * 4 channel 100V speaker inputs loop and 4 channel 3 wired volume control inputs
- * 1 external line input (with volume control) and mic input
- * Automatically power off when no input for 5 minutes and automatically power on when signal feed into
- * Pre-set power management

Model	T-6701
Network Input	Standard RJ45x3, 1 input, 2 output
Protocol Support	TCP/IP, UDP, IGMP (group broadcasting)
Audio Format	MP3/MP2
Sampling Rate	8K~48KHz
Transmit Speed	10Mbps
Audio Mode	16 digit stereo CD tone
Frequency Output	20Hz~16KHz
THD	≤0.3%
S/N	>70dB
Aux Line Voltage Input	2x400mV Industrial standard screw terminals
Sources Voltage Output	8x775mV Industrial standard screw terminals
Audio Output Impedance	0V Industrial standard screw terminals
Alarm Control Output	0V Industrial standard screw terminals
Power Source Control Output	0V Industrial standard screw terminals
Program Control Output	DC 24V Industrial standard screw terminals
Working Temperature	-20°C~+60°C
Working Humidity	10%~90%
Power Consumption	≤40W
Power Supply	~110V/60Hz or ~230V/50Hz
Dimensions	484x350x88mm
Weight	8Kg

T-6702

IP Network Audio & Intercom Paging Console



This paging station is used for one-way broadcasting (point to point, zone or all zone) and dial-up two-way communication

Features

- * Desktop microphone type, with exquisite appetite, elegant craft and modern design
- * 3.4 inch LCD, with user-friendly human-machine interface.
- * With numeric keys, function keys to call any terminal, easy to operate.
- * With two-way intercom, realizing 2-way intercom from IP terminals to IP terminals.
- * Assistance bell signals tips; one touch to receive help, intercom, realizing fast connection.
- * Support infrared remote control receiver, with a remote controller to complete all operations.
- * Built-in 1W full-range monitor speakers with clear and loud sounds.
- * Support hands-free calls and broadcast receiving.
- * Support local one line input and one line audio auxiliary output.
- * 12V DC power interface.

Model	T-6702(D)
Network Interface	Standard RJ45
Support Agreement	TCP/IP, UDP, IGMP
Audio Format	MP3/MP2
Sampling Rate	8K~48KHz
Transfer Rate	10/100Mbps
Audio Mode	16-bit stereo CD sound quality
Output Frequency	20Hz~16KHz
THD	≤0.3%
S/N Ratio	>70dB
Auxiliary Line Input Level	400mV industry-standard voltage wire terminals
Audio Output Level	775mV industry-standard voltage wire terminals
Audio Output Impedance	1KΩ
Operating Temperature	-20℃~+60℃
Operating Humidity	10%~90%
Power Consumption	≤10W
Power Supply	DC12V
Dimensions	200x145x48.5mm

T-6705A

IP Network Adapter (Wall Mount Type with Amplifier)



Features

- * 3.4 inch LCD screen, humanized operation interface.
- * Paging function: Realize individual or multi terminals paging, group zones or all zones paging from the computer.
- * Build-in order programmed collect module, it can realize the real time signal collect function.
- * IR remote control optional, all operations can be done on the remote control.
- * Built-in 2 x 15W stereo power amplifier.
- * AUX output, connect to external amplifier.
- * Support local mic, line input, volume control.
- * Build-in 3 grades priority function: 1) Local signal priority: Local signal input priority, and priority can be preset, internet music has function of background music. 2) Emergency broadcast priority: when emergency broadcast priority input, broadcast signal will close the local signal input automatically to play network emergency broadcasting signal. 3) Local signal compulsive priority: under the circumstance of broadcasting, can start on the local compulsive priority function to achieve local emergency broadcasting function.

Model	T-6705
Network Input	Standard RJ45x3, 1 Input, 2 Output
Protocol Support	TCP/IP, UDP, IGMP (group broadcasting)
Audio Formats	MP3/MP2
Sampling Rate	8K~48KHz
Transmit Speed	10Mbps
Audio Format	16 digit stereo CD tone
Frequency Output	20Hz~16KHz
THD	≤0.3%
S/N	≥70dB
Speaker Output Impedance And Rated Power Output	4Ω, 2x15W Industrial Standard Screw terminals
Aux Line Voltage Input	2x400mV Industrial Standard Screw terminals
Sources Voltage Output	2x775mV Industrial Standard Screw terminals
Mandatory Input	0V Industrial standard screw terminals
Source Impedance Output	1KΩ
MIC Input S/N	10mV
Working Temperature	-20℃~+60℃
Working Humidity	10%~90%
Power Consumption	≤40W
Power Supply	~110V/60Hz or ~230V/50Hz
Dimensions	220x157x53mm
Weight	3Kg

T-6705(D)

IP Network Audio & Intercom Adapter (with amplifier)



The Wall Mount IP Network Emergency Station is wall-mount type that suitable for dial-up intercom communication or background music broadcast.

Features

- * Wall-mount type; with symmetry and graceful body.
- * 3.4 inch LCD; user-friendly human-machine interface.
- * With numeric keys, functional keys to call any terminal, easy and quick to operate.
- * With two-way intercom, realizing 2-way intercom from IP terminals and IP terminals..
- * With infrared remote control receiver; with a remote controller to complete all operations.
- * Built-in 10W power amplifier, fixed impedance out put, externally connects to speakers.
- * Support hands-free calls and broadcast receiving.
- * Support local microphone, line input, volume adjustment.
- * Audio auxiliary output, external power amplifier expansion.
- * With AC220V \pm 10% AC power interface.

Model	T-6705(D)
Network Interface	Standard RJ45 input
Support Agreement	TCP/IP, UPP, IGMP
Audio Format	MP3/MP2
Sampling Rate	8K~48KHz
Transfer Rate	10/100Mbps
Audio Mode	16-bit stereo CD sound quality
Output Frequency	20Hz~16KHz
Harmonic Distortion	\leq 3%
S/N Ratio	>70dB
Power Output	4 Ω , 1x10W industry-standard compression terminals
Auxiliary Line Input Level	400mV industry-standard voltage wire terminals
Audio Output Level	775mV industry-standard voltage wire terminals
Audio Output Impedance	1K Ω
Operating Temperature	-20 $^{\circ}$ C~+60 $^{\circ}$ C
Operating Humidity	10%~90%
Power Consumption	\leq 18W
Power Supply	\sim 110V/60Hz or \sim 230V/50Hz
Dimensions	220x157x37mm
Weight	1.25Kg

T-6703(D1)

IP Intercom Panel (with speaker)



The IP Network Emergency Station is suitable for indoor and outdoor embedded installation. One touch design to make call to duty officer or a pre-designated target terminal for intercom communication.

Features

- * Rectangular embedded design, simple appearance with elegant lines and craft
- * One touch for help, a microphone to call duty room, realizing fast connection, simple and quick operation.
- * With built-in microphone. Built-in 1W a full-range monitor speaker with clear and loud sounds
- * Support hands-free calls and broadcast receiving.
- * Support local one line input; one line audio auxiliary output; externally connect to amplifiers.
- * Support local emergency button signal.
- * Support local electronic door locks and local alarm indicator (select 1 from 2).
- * 12V DC power interface.

Model	T-6703(D1)
Network Interface	Standard RJ45 input
Support Agreement	TCP/IP, UDP, IGMP
Audio Format	MP3/MP2
Sampling Rate	8K~48KHz
Transfer Rate	10/100Mbps
Audio Mode	16-bit stereo CD sound quality
Output Frequency	20Hz~16KHz
THD	≤0.3%
S/N Ratio	>70dB
Auxiliary Line Input Level	400mV dusty-standard voltage wire terminals
Audio Output Level	775mV industry-standard voltage wire terminals
Audio Output Level	1KΩ
Operating Temperature	-20°C~+60°C
Operating Humidity	10%~90%
Power	≤5W
Power Supply	DC12V
Dimensions	240x115x50mm
Weight	1Kg

T-6703(D2)

IP Intercom Panel (with amplifier)



The IP Network Emergency Station is suitable for indoor and outdoor embedded installation. One touch to call duty officer or a pre-designated target terminal for intercom communication or background music broadcast.

Features

- * Rectangular embedded design, simple appearance with elegant lines and craft
- * One touch for help, a microphone to call duty room, realizing fast connection, simple and quick operation.
- * With built-in microphone. Built-in 10W a full-range monitor speaker with clear and loud sounds
- * Support hands-free calls and broadcast receiving.
- * Support local one line input; one line audio auxiliary output; externally connect to amplifiers.
- * Support local emergency button signal.
- * Support local electronic door locks and local alarm indicator (select 1 from 2).
- * 12V DC power interface..

Model	T-6703(D2)
Network Interface	Standard RJ45 input
Support Agreement	TCP/IP, UDP, IGMP
Audio Format	MP3/MP2
Sampling Rate	8K~48KHz
Transfer Rate	10/100Mbps
Audio Mode	16-bit stereo CD sound quality
Output Frequency	20Hz~16KHz
THD	≤0.3%
S/N Ratio	>70dB
Auxiliary Line Input Level	400mV industry-standard voltage wire terminals
Audio Output Level	775mV industry-standard voltage wire terminals
Audio Output Impedance	1KΩ
Operating Temperature	-20°C~+60°C
Operating Humidity	10%~90%
Power Consumption	≤15W
Power Supply	DC12V
Dimensions	240x115x50mm
Weight	1Kg

T-6715(D)

IP Intercom Control Unit (with amplifier)



Features

- * Separation design to secure a more save system
- * Connects up to 8 intercom panel, significantly reducing the cost of system expansion
- * Hand in hand RJ45 connector, max distance 1,200m
- * Built-in 2 x 10W digital amplifier for a wide range of call, public address and background music applications
- * 12V ~ 24V DC power supply to facilitate the system backup power management
- * 1 MIC input, 1 line input, independent volume adjustment for live sound broadcast
- * 1 short-circuit input and 1 short-circuit output for expanding interaction with other systems
- * Supports a variety of gateways, cross routing, and Internet network operation.

Model	T-6715(D)
Network Interface	Standard RJ45 input
Support Protocol	TCP/ IP, UDP, IGMP
Audio Formats	MP3/MP2
Sampling Rate	8K~48KHz
Transfer Rate	100Mbps
Audio Mode	16 bit stereo CD sound
Frequency Response	20Hz~20KHz +1/-3dB
Harmonic Distortion	THD≤0.01%
S/N Ratio	≥85dB
Auxiliary Line Input Level	350mV
Auxiliary Microphone Input Sensitivity (unbalanced input)	5mV
Power Output	2x10W/8Ω
Short-circuit Input	Dry contact input
Short-circuit output	Max 3A/120V dry contact output
Operating Temperature	-20℃~+60℃
Humidity	10%~90%
Power	≤30W

T-6715A(D)

IP Intercom Panel (Emergency Call)



Features

- * Compatible with electrical standard double 86 bottom box size for flexible installation and construction
- * Use only RJ45 port, without any other connection line, greatly simplifying the construction
- * Hand in hand RJ45 connector connect up to 8 panels, max distance 1,200m (more than 400 meters require and external power supply)
- * Built-in polarity MIC and amplifying circuit to achieve high sensitivity field sound acquisition
- * Built-in 1W high efficiency, high-fidelity amplifier and wide-band speakers for intercom and monitoring
- * Independent emergency call intercom keys, can be linked with the central room, duty room security devices for help intercom operation.

Model	T-6715A(D)
Electrical Interface	Standard RJ45 input
Support Protocol	RS485
Frequency Response	80Hz ~ 16KHz +1/-3dB
Harmonic Distortion	THD≤0.01%
S/N Ratio	≥85dB
Auxiliary Microphone Input Sensitivity (unbalanced input)	10mV
Power Output	1W/8Ω
Operating Temperature	-20℃ ~ +60℃
Operating Humidity	10%~ 90%
Power	≤3W

T-6715B(D)

IP Intercom Panel (Emergency Call & Business Inquiry)



Features

- * Compatible with electrical standard double 86 bottom box size for flexible installation and construction
- * Use only RJ45 port, without any other connection line, greatly simplifying the construction
- * Hand in hand RJ45 connector connect up to 8 panels, max distance 1,200m (more than 400 meters require and external power supply)
- * Built-in polarity MIC and amplifying circuit to achieve high sensitivity field sound acquisition
- * Built-in 1W high efficiency, high-fidelity amplifier and wide-band speakers for intercom and monitoring
- * Emergency call button and service inquiry button are push to talk with the central room to start intercom communication.

Model	T-6715B(D)
Electrical Interface	Standard RJ45 input
Support Protocol	RS485
Frequency Response	80Hz ~ 16KHz +1/-3dB
Harmonic Distortion	THD≤0.01%
S/N Ratio	≥85dB
Auxiliary Microphone Input Sensitivity (unbalanced input)	10mV
Power Output	1W/8Ω
Operating Temperature	-20°C ~ +60°C
Operating Humidity	10%~ 90%
Power	≤3W