ZYCOO

X10

SIP Paging Gateway

ZYCOO X10 SIP paging gateway is SIP enabled multifunctional IP audio device dedicated for industry users. It can convert voice streams from a SIP paging system or IP PBX system to analog sounds for background music, public address, intercom, etc. Based on the compact hardware design, open standard SIP protocol support, rich functionality and high performance. Industry users can customize the X10 SIP paging gateway into any desired form of intercom devices or paging speakers, so the X10 can be widely used for smart and safe scenarios, to increase the efficiency of communication and information sharing.

◀ Applicable Scenarios

▶ Built-in Amplifier

Built-in amplifier rated at 2x10W dual-channel output, passive loudspeakers can be connected directly for stereo audio output, no external amplifier is needed.

▶ Stereo Audio

Music can be streamed from ZYCOO IP Audio Center using streamed media to the X10 SIP paging gateway for local decoding and playback, high definition stereo audio quality is guaranteed.

▶ Two-way Communication

Supports 2 programmable press-to-talk buttons. When connected to an external speaker and microphone, it enables two-way intercom for emergency communication or consultation.

▶ HD Audio Codecs

Support G.722 wideband audio codec, provides clear and intelligible voice speech for the intercom calls. With the high audio reproduction ability and clarity, quality of communication is guaranteed.

▶ Compatible with Third-party SIP Server

With SIP protocol support, the X10 SIP paging gateways can be easily integrated with existing third-party SIP servers. SIP paging or intercom calling using your existing phone system.

▶ Door Magnet Control

The X10 SIP paging gateways is equipped with built-in relay switch, which can be used for door magnet control or other devices to be controlled with dry contact signal. The invoke of dry contact signal can be digital input signal from sensors, DTMF signal or call status.

▶ Automatic Control

The X10 SIP paging gateway supports processing the external sensor or other devices' digital input signal, to invoke dry contact signal output for door magnet control, automated emergency calling, automated emergency alarm, etc.

▶ Auto Provisioning

ZYCOO IP Audio Center auto provisioning support, large-scale installations (local or remote) will be effort and time-saving.

▶ Power over Ethernet (PoE)

Standard PoE (IEEE802.3at) support, sample and easy installation with a single network cable. Large-scale installation will be extremely easy and timesaving.

▶ Microphone Input

The X10 is equipped with a 3.5mm audio input interface that allows connection of a microphone for audio capture. The captured audio can be played on designated end point devices via the X10 network paging gateway.

▶ Various Peripherals Support

Various peripherals can be integrated, like IP camera, smoke sensors, infrared sensors, door magnet, sound and light alarm which can be used for public safety and security purposes.

▶ P2P and Multicast

Support Multicast and Peer-to-peer (P2P) to share data between devices without a central server while the devices use under the same local network.

▶ Multi SIP Accounts

Support three lines SIP accounts, in which users may register the endpoint in more than one system for achieving different functionality purposes.

▶ ONVIF Compatible

X10 is compatible with ONVIF-supported Video Management Software (VMS), enabling collaboration with IP cameras for functions such as paging, emergency notifications, real-time announcements, and event linkage, enhancing both security and functionality.

Specifications

Audio Interfaces	
Amplifier Output	2x10W, 8Ω (4 pins)
Audio Output	3.5mm Jack
Audio Input	3.5mm Jack (Microphone Only)
Other Interfaces	
Power Input	PoE 802.3at on ETH0 or DC 12V-3A Jack
Volume Control	VOL+ and VOL-, press both to announce IP address
Ethernet	ETH0+ETH1, 10/100Mbps
Call button	Support 2 call buttons (switch button)
Call button LED	Support 2 call button LED indicators
Digital level output	N/A
Digital level input	5V Max
Dry Contact	NO/NC contacts, max AC 125V-1A, DC 60V-1A
Audio	
Audio Codecs	G.722, G.711 A-law, G.711 U-law, Opus
Music Streaming	MP3 sampling rate 8 – 48KHz, bit rate 64 – 320kbps, mono or Stereo
Protocols	
Protocols	SIP(RFC3261), HTTP, TCP/IP, SSL, DNS, SNTP, NTP, RTSP, RTP, RTCP, TCP, UDP, MQTT, ICMP, DHCP, ARP, SSH
Administration	
Configuration	Web interface or auto provisioning server
Provision method	MQTT IoT Protocol
Mechanical Properties	
Processor	ARM Cortex-A35
RAM	128MB DDR3
Storage	256MB SLC Flash
Environment	
Working Environment	-20°C ~ +50°C
Storage Environment	-40°C ~ +75°C
Humidity	10% ~ 95%RH Non-condensing
Other	
Dimension	153*76*33mm
Weight	303g

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