DASSCOM®
Innovative Sound

RELAY   DIN   LED2   KEY2   LED1   KEY1   SPEAKER

NO COM NC   +   –   +   –   –   +   +   –   –   +   R+   R–   L–   L+

AUDIO
OUT   IN

X10

DASSCOM SIP Paging Gateway

Dasscom 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 analogue 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. With which can be widely used for smart and safe city applications, to increase the efficiency of com-munication and information sharing, as a result to improve public safety and citizen welfare.

Feature Highlights

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 DASSCOM 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 Intercom
Support 2 programmable "press-to-talk" switch buttons, with an external speaker and microphone, it can do two-way intercom calls for emergency or consulting purposes.

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
DASSCOM 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 time saving.

X10 External Audio Collection
With the 3.5mm audio input jack, it can collect external audio sources from devices such as mobile phones, computers, mp3, etc. and playback through the corresponding devices.

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.

No Server Relies
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.

Specifications

Audio Interfaces	X10
Amplifier Output	2x10W, 8Ω (4 pins)
Headset Output	3.5mm Jack
Microphone	3.5mm Jack
Other Interfaces	
Power Input	DC 12V-3A Jack
Volume Control	VOL+ and VOL-, press both to announce IP address
Ethernet	ETH0+ETH1, 10/100Mbps, ETH0 with PoE IEEE 802.3at enabled
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	128MB 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
RST Key	Press and hold for 5 seconds to reset to factory defaults
LED Indicator	PWR power indicator, SYS system indicator