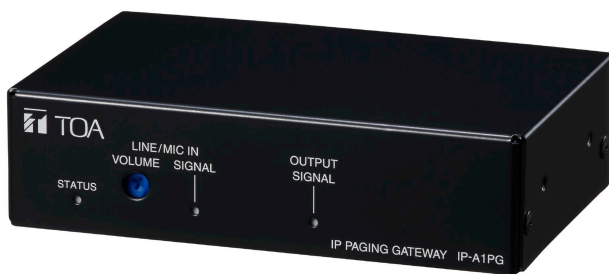


IP-A1PG

IP PAGING GATEWAY



The IP-A1PG is a PoE-powered Gateway Unit that integrates multiple IP Audio devices by converting the SIP voice or ONVIF Backchannel audio into multicast audio streaming. It can also transmit built-in sound source or input audio as multicast audio streaming. Moreover, the event broadcasting triggered by control input or remote API (HTTP) as well as the command set that sends multiple HTTP commands simultaneously are also available.

Key features

- Convert SIP audio, ONVIF Audio Backchannel, internal audio files or local audio source into Multicast streaming
- System mute function to mute all broadcasts made by every single IP-A1 series devices within the same network
- 1 local audio input (LINE/MIC selectable, phantom power On/Off)
- 4 control inputs and 1 control output
- HTTP commands (receive/send)
- Audio file storage (20 files, total 80MB, WAV/MP3)
- PoE powered

Specifications

Power Source	PoE(IEEE802.3af Class 3)
Power Consumption	2.5 W
Audio Transmission Method	Multicast Audio Streaming
Audio Codec	PCMU(G.711u), PCMA(G.711a), G.722
Audio Delay Time	Min. 100 ms(*1)
SUB#Network I/F	100BASE-TX, Auto MDI/MDI-X, RJ45 connector
Network Protocol	TCP/IP, UDP, HTTP, RTP, RTSP, RTCP, ARP, ICMP, IGMPv3, NTP, SIP(RFC3261)
Audio Input	1 channel, electronically-balanced, 10 k Ω LINE/MIC selectable (Rated input: LINE: 0 dB (*2), MIC: -60 dB (*2)) PAD function (-20 dB (*2), Phantom power ON/OFF (12 V DC), volume adjustable removable terminal block (6 pins)
Control Input	4 channels, no-voltage make contact inputs, open voltage: 5 V DC, short-circuit current: 2 mA or less, removable terminal block (6 pins)
Monitor Output	1 channel, electronically-balanced, 600 Ω or less Rated output: 0 dB (*2), RCA pin jack
Mute Control In	1 channel, 24 V DC cut signal, control current 5 mA or less, removable terminal block (2 pins)
Control Output	1 channel, open collector output, withstand voltage: 30 V DC, control current: 10 mA or less, removable terminal block (6 pins)
Indicator	STATUS (green/blue/orange/red), LINE/MIC IN (green/red), OUTPUT (green), LINK/ACT (green)
Functions_Broadcasting	Audio transmission Transmit internal messages by multicast audio streaming Transmit audio from audio input connected devices by multicast audio streaming Audio conversion Convert SIP voice to multicast audio stream and transmit Convert ONVIF Audio Backchannel audio to multicast audio stream and transmit
Functions_Event	Execute event triggered by control input Configurable actions: Internal message broadcast, audio input broadcast, command set transmission, broadcast disable, system mute
Functions_Internal Message	Max. 20 messages (Max. recording capacity: 80 MB) Supported file format: WAV file: 8/16/44.1/48 kHz sampling frequency, 8/16 bit, monaural/stereo MP3 file: 32/44.1/48 kHz sampling frequency, 64 - 320 kbps, CBR/VBR, monaural/stereo Repeat playback: Playcount (1 - 10 times) or Duration (5 - 3600 sec) Interval time: 0 - 60 sec, Delay time: 0 - 30 sec
Functions_Command Set	20 commands can be registered in each of 10 command sets
Operating Temperature	0 °C to +40 °C (32 °F to 104 °F)
Clock Accuracy	±13 seconds per month
Operating Humidity	90 %RH or less (no condensation)
Time Adjustment	Manual time setting, Time adjustment by NTP server
Finish	Front case: Surface-treated steel plate, black, paint Rear chassis: Surface-treated steel plate
Power Outage Protection Period	24 hours (RTC time retention, at 40 °C (104 °F))
Dimensions	126 (W) x 33 (H) x 80 (D) mm (4.96" x 1.3" x 3.15") (excluding projection)

Weight	390 g (0.86 lb)
Included Accessories	Removable terminal plug (6 pins, preinstalled on the unit) x 2, Removable terminal plug (2 pins, preinstalled on the unit), Rubber feet x 4, Mounting screw (M3 x 6) x 4

(*1) When using in Local Input Broadcasting Mode, assume Audio Delay Time.

(*2) 0 dB = 1 V These specifications only apply to the firmware version 2.1.0.

ONVIF is a registered trademark of ONVIF Inc.

Windows and Microsoft Edge are registered trademarks of Microsoft Corporation in the United States and other countries.

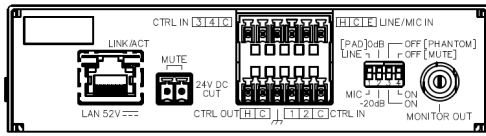
Google Chrome is the trademark of Google LLC in the United States and other countries.

Other company names and products are also trademarks of individual companies.

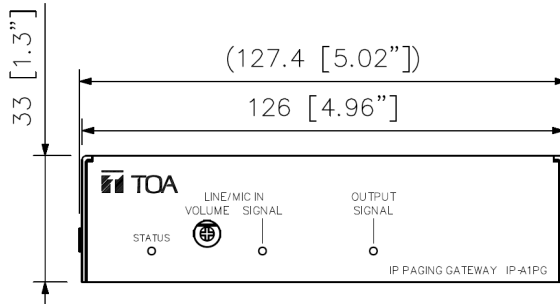
PC requirements

PC Requirements_Display	Recommended resolution: 1920 x 1080
OS	Windows 10 Pro (64 bit edition) Windows 10 Home (64 bit edition) Windows 11 Pro Windows 11 Home
Web Browser	Google Chrome Microsoft Edge

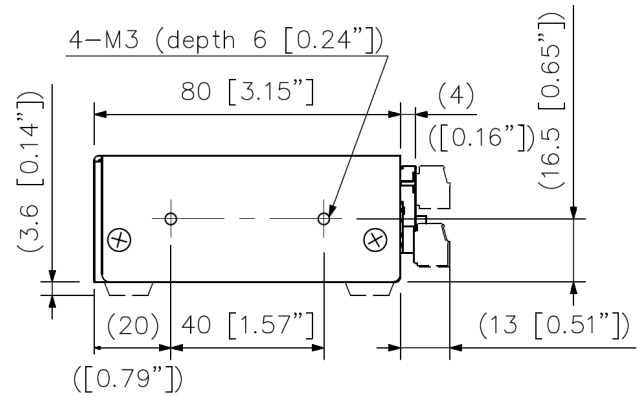
Dimensions



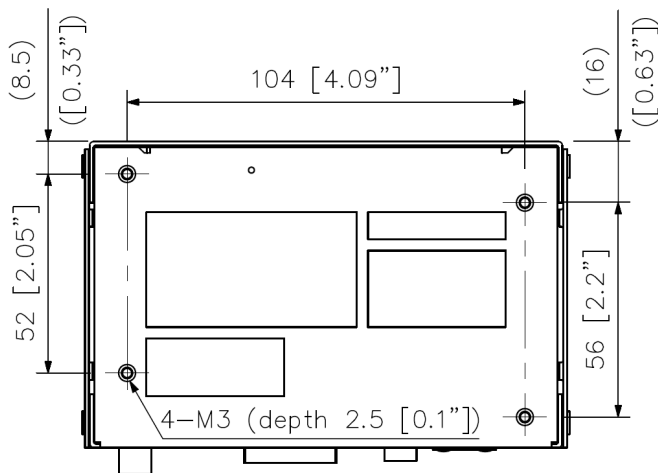
Rear View



Front View



Side View
(with accessories)



Top View

UNIT:mm

Note: Numerical values in parentheses are for reference only.

A&E specifications

The IP paging gateway unit shall be able to convert multiple IP audio protocols such as SIP, ONVIF Backchannel audio as well as built in analog audio input signals into multicast streaming for delivering audio to multiple IP speakers and/or other IP endpoints for the purpose of site wide simultaneous paging applications. The IP paging gateway shall have an electronically balanced 10k Ω audio input with LINE/MIC selection with switchable ON/OFF 12 V DC phantom power and a 600 Ω electronically balanced monitoring output. The audio input shall have an independent volume control on the front panel that can be adjusted only by using a screwdriver. Twenty multi-cast ports shall be available for group paging and shall have the facility of storing up to twenty audio files with the code of WAV or MP3 format internally. The device shall have the flexibility of broadcasting these files from a calendar schedule at predetermined times or repeated when necessary triggered from a control input, or from remote API (HTTP). The IP paging gateway shall be capable of muting other TOA IP-A1 series devices such as IP-A1AF, IP-A1PC238, IP-A1PC580R or IP-A1PC580S within the same network. Remote settings shall be achieved by connection to a Windows® based personal computer and by using the PC's browser, operational settings, functions and system status can be established. The IP paging gateway unit shall have four control inputs and one control output with an additional 24 V DC mute contact. The IP paging gateway shall offer priority status among the various broadcast modes that will override and interrupt a lower priority broadcast. Power source shall be supplied from a PoE switching hub.

The IP paging gateway shall be housed in black treated steel plate and its dimension shall be 126 (W) x 33 (H) x 80 (D) mm (4.96" x 1.3" x 3.15") weighing 390 g (0.86 lbs).

Manufacturer: TOA Corporation

Model: IP-A1PG