



# SPA-D1000

## IP Audio Module

### Key Features

- Output Level: +6dBV  $\pm$  3dB
- Frequency Response: 20Hz ~ 20kHz
- Amplifier: Built in 10W Class D
- Power: PoE (IEEE 802.3 af type 1 Class 3), PoE+(IEEE 802.3 at type 2 Class 4)
- Internal Memory: 1 GBytes
- Supported Protocol: IPv4, HTTP, SIP, mDNS, DNS, NTP, TCP, UDP, DHCP, ARP, ICMP
- TTS: English(US, UK), German, French, Spanish, Russian
- Audio Monitoring: Speaker, Connection test

# SPA-D1000

IP Audio Module



## Specifications

| Product                          |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| IP Audio Type                    | IP Audio Module                                                                                                            |
| Line Output                      |                                                                                                                            |
| Output Level                     | +6 dBV $\pm$ 3 dB                                                                                                          |
| Frequency Response               | 20Hz~20kHz                                                                                                                 |
| THD + N Ratio (AES17LPF)         | Less than 0.1%                                                                                                             |
| S/N Ratio (20kHz LPF, A-WTD)     | Greater than 91 dB                                                                                                         |
| Amplifier                        |                                                                                                                            |
| Description                      | Built in 10W Class D                                                                                                       |
| Network                          |                                                                                                                            |
| Ethernet                         | 10/100 Base-T                                                                                                              |
| Memory                           |                                                                                                                            |
| Internal Memory                  | 1 GBytes                                                                                                                   |
| External Memory (Micro SD)       | SDHC upto 32GB (SANDISK)                                                                                                   |
| Contact                          |                                                                                                                            |
| Contact Input. Dry contact       | One Channel                                                                                                                |
| Contact Output. Dry contact (NO) | One channel                                                                                                                |
| General                          |                                                                                                                            |
| Operating Temperature            | -20°~+50°C (-4°F~+122°F)                                                                                                   |
| Operating Humidity               | 10~85%RH(Non-Condensing)                                                                                                   |
| IP Code                          | N/A                                                                                                                        |
| Weight                           | 0.24Kg (0.53lb)                                                                                                            |
| Size                             | 123(W)*80(H)*30.6(W)mm                                                                                                     |
| Color                            | White                                                                                                                      |
| Certificate                      | EMC : KS C 9832/9835, EN 55.32/55035, FCC Part 15 Subpart B, ICES-003,<br>Safety : KC 62368-1, UL 62368-1, CAN/CSA 62368-1 |
| Power                            |                                                                                                                            |
| PoE                              | PoE (IEEE 802.3 af type 1 Class 3)                                                                                         |

## Power

|      |                                |
|------|--------------------------------|
| PoE+ | (IEEE 802.3 at type 2 Class 4) |
|------|--------------------------------|

## Embedded MIC

|                    |                   |
|--------------------|-------------------|
| Input Sensitivity  | Sound Level Meter |
| Frequency Response | Sound Level Meter |

## Audio

|                        |                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------|
| Supported Audio Format | WAV, MP3 in mono/stereo from 64 kbps to 320 kbps. Sampling rate from 16kHz up to 48 kHz |
|------------------------|-----------------------------------------------------------------------------------------|

## Network Protocol

|                     |                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------|
| Security            | Password protection : admin, setup, user, guest (sha-2, Digest authentication, User access log) |
| Supported Protocols | IPv4, HTTP, SIP, mDNS, DNS, NTP, TCP, UDP, DHCP, ARP, ICMP                                      |

## System Integration

|                                   |                                                                                                                                                                                                                    |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Programming Interface | SUNAPI(HTTP API), ONVIF Profile S                                                                                                                                                                                  |
| Multi-source Dynamic PA control   | Multi-source up to 48 (Multicast) (Audio 24CH + Mic 24CH), Up to 256 Zone Control (Multicast), Up to 20 Zone Control (Unicast), Up to 255 Groups                                                                   |
| VoIP                              | Tested with SIP clients such as Grandstream,Yealink,Cisco,MicroSIP softphone and PBX supplier such as Asterisk,<br>Supported SIP features : DTMF (RFC2833),<br>Supported codecs : PCMU,PCMA,speex/8000,speex/16000 |
| TTS                               | English (US, UK), German, French, Spanish, Russian                                                                                                                                                                 |
| Audio Monitoring                  | Speaker test by graphic level meter (Built in test tool)                                                                                                                                                           |
| Event & Preset                    | Virtual Contact, Dry contact                                                                                                                                                                                       |
| Functional Monitoring             | Connection verification, Built-in system logging                                                                                                                                                                   |

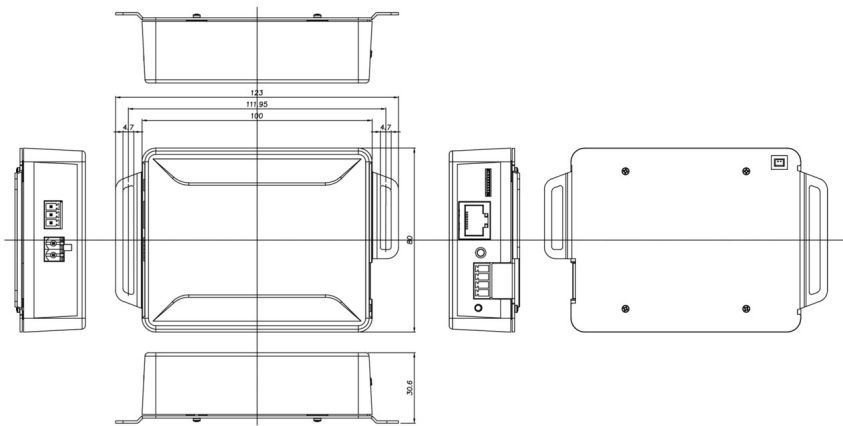
# SPA-D1000

IP Audio Module



CAD

Unit: mm [inch]



|                           |            |                                                                                                      |
|---------------------------|------------|------------------------------------------------------------------------------------------------------|
| 3                         | MODEL2     |                                                                                                      |
| 2                         | MODEL1     |                                                                                                      |
| 1                         | SPA-D1000  | '22.7.15                                                                                             |
| No.                       | MODEL NAME | DATE                                                                                                 |
| Unit: mm[inch] SCALE: 1/1 |            |  Hanwha Techwin |

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