



# 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                          |   |
| Type                             | IP Audio Module   |
| Line Output                      |   |
| Output Level                     | +6dBV $\pm$ 3dB   |
| Frequency Response               | 20Hz ~ 20kHz  |
| THD + N Ratio (AES17 LPF)        | Less than 0.1%  |
| S/N Ratio (20kHz LPF, A-WTD)     | Greater than 91dB   |
| 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)  |
| Weight                           | 0.24Kg  |
| Size                             | 123(W)*80(H)*30.6(D)mm  |
| Color                            | White   |
| Certificate                      | EMC : KS C 9832/9835, EN 55032/55035, 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)  |
| PoE+                             | PoE+(IEEE 802.3 at type 2 Class 4)  |
| Embedded MIC                     |   |
| Input Sensitivity                | Sound Level Meter   |
| Frequency Response               | Sound Level Meter   |

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com)  
Hanwha Vision is formerly known as Hanwha Techwin.

|   |   |
|---|---|
| <b>Audio</b>                            |   |
| Supported Audio Format                  | WAV, MP3 in mono/stereo from 64 kbps to 320 kbps.<br>Sampling rate from 16 kHz up to 48 kHz   |
| <b>Network Protocol</b>                 |   |
| Security                                | Password protection : admin,setup,user,guest<br>(sha-2, Digest authentication, User access log)<br>Digest authentication, User access log   |
| Supported Protocols                     | IPv4, HTTP, SIP, mDNS, DNS, NTP, TCP, UDP, DHCP, ARP, ICMP  |
| <b>System Integration</b>               |   |
| API (Application Programming Interface) | SUNAPI  |
| Multi-source Dynamic PA control         | Multi-source up to 48 (Multicast) (Audio 24CH + Mic 24CH)<br>Up to 256 Zone Control (Multicast)<br>Up to 20 Zone Control (Unicast)<br>Up to 255 Groups  |
| VoIP                                    | Tested with SIP clients such as Grandstream, Yealink, Cisco, MicroSIP softphone and PBX supplier such as Asterisk<br>Tested with SIP client such as Grandstream and PBX supplier such as Grandstream<br>Supported SIP features: DTMF (RFC2833)<br>Supported codecs: PCMU, PCMA, speex/8000, speex/16000 |
| TTS                                     | English (US, UK), German, French, Spanish, Russian  |
| Event & Preset                          | Virtual Contact, Dry contact  |
| Functional Monitoring                   | Connection verification, Built-in system logging  |

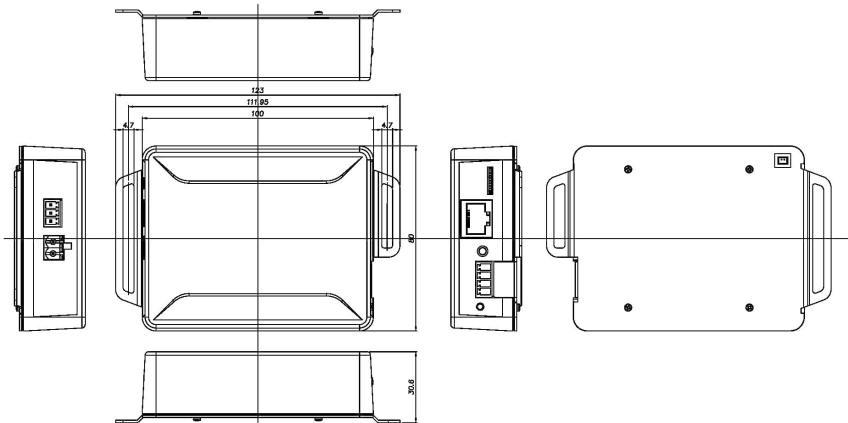
# SPA-D1000


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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