



# 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

<b>Product</b>	
Type	IP Audio Module
<b>Line Output</b>	
Output Level	+6dBV ± 3dB
Frequency Response	20Hz ~ 20kHz
THD + N Ratio (AES17 LPF)	Less than 0.1%
S/N Ratio (20kHz LPF, A-WTD)	Greater than 91dB
<b>Amplifier</b>	
Description	Built in 10W Class D
<b>Network</b>	
Ethernet	10/100 Base-T
<b>Memory</b>	
Internal Memory	1 GBytes
External Memory (Micro SD)	SDHC upto 32GB (SANDISK)
<b>Contact</b>	
Contact Input. Dry contact	One channel
Contact Output. Dry contact (NO)	One channel
<b>General</b>	
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 Safety : KC 62368-1, UL 62368-1, CAN/CSA 62368-1
<b>Power</b>	
PoE	PoE (IEEE 802.3 af type 1 Class 3)
PoE+	PoE+(IEEE 802.3 at type 2 Class 4)
<b>Embedded MIC</b>	

**SPA-D1000**

Input Sensitivity	Sound Level Meter
Frequency Response	Sound Level Meter
<b>Audio</b>	
Supported Audio Format	WAV, MP3 in mono/stereo from 64 kbps to 320 kbps. Sampling rate from 16 kHz up to 48 kHz
<b>Network Protocol</b>	
Security	Password protection : admin,setup,user,guest (sha-2, Digest authentication, User access log) 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) 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 Tested with SIP client such as Grandstream and PBX supplier such as Grandstream Supported SIP features: DTMF (RFC2833) 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

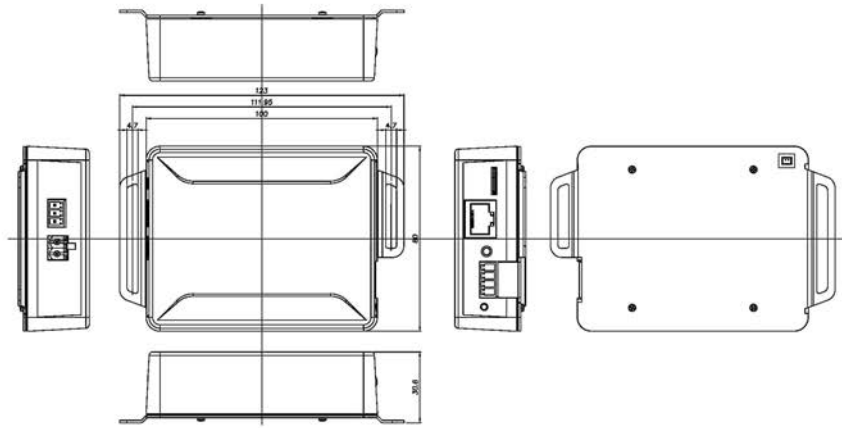
# SPA-D1000

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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