



# 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, HTTPS, SIP, mDNS, DNS, NTP, TCP, UDP, DHCP, ARP, ICMP, SNMP(v3)
- 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 (Micr SD)	SDHC upto 32GB (SANDISK)
Contact	
Contact Input. Dry contact	One Channel
Contact Output. Dry contact (NO)	One channel
General	
Operating Temperature	-20 $^{\circ}$ C~+50 $^{\circ}$ C(-4 $^{\circ}$ F~+122 $^{\circ}$ 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, Safety : KC 62368-1, UL 62368-1, CAN/CSA 62368-1
Power	
PoE	PoE (IEEE 802.3 af type 1 Class 3)

<b>Power</b>	
PoE+	(IEEE 802.3 at type 2 Class 4)
<b>Embedded MIC</b>	
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 16kHz up to 48 kHz
<b>Network Protocol</b>	
Security	Password protection : admin, setup, user, guest (sha-2, Digest authentication, User access log)
Supported Protocols	UDP, NTP, DHCP, mDNS, HTTP, SIP, IPv4, ICMP, ARP, TCP, DNS
<b>System Integration</b>	
Application Programming Interface	SUNAPI(HTTP API)
Multi-source Dynamic PA control	Multi-source up to 48 (Multicast) (Audio 24CH + Mic 24CH), Up to 20 Zone Control (Unicast), Up to 256 Zone Control (Multicast), Up to 255 Groups
VoIP	Supported codecs : PCMU, PCMA, speex/8000, speex/16000, Supported SIP features : DTMF (RFC2833), Tested with SIP clients such as Grandstream, Yealink, Cisco, MicroSIP softphone and PBX supplier such as Asterisk
TTS	German, Russian, French, Spanish, English (US, UK)
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

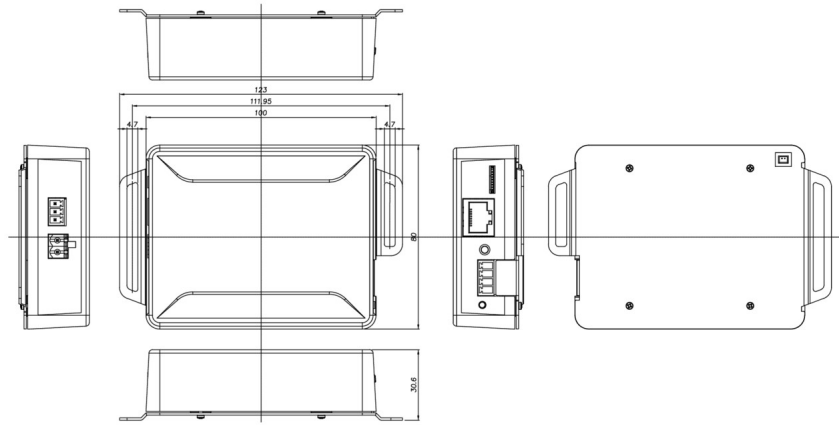
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IP Audio Module



**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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