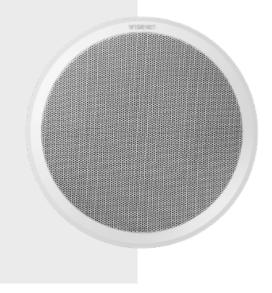
## WISENET SPA-C100





SPA-C100

**IP** Ceiling Speaker

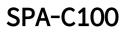


## **Key Features**

- 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
- Max. Sound Pressure Level: 99dB
- Frequency Range (-10dB): 120Hz~20kHz
- Sensitivity (1Watt): 90dB
- Supported Protocol: IPv4, HTTP, SIP, mDNS, DNS, NTP, TCP, UDP, DHCP, ARP, ICMP
- TTS: English(US, UK), German, French, Spanish, Russian
- Audio Mornitoring: Speaker, Connection test







IP Ceiling Speaker







## **Specifications**

Type         P Calling Speaker           Dutput Level         + 6dBV ± 3dB           Prequency Response         20Hr - 20Hr /           SN Radio (ASSLY LPF)         Less than 0.3%           SN Radio (ASSLY LPF)         Built in 10W Class D           Power Amp         SN (PoEF) @SSH2           Power (AD. Liktz Sine wave)         3.7W[PoE). 10W (PoEF) @SSH2           Network         SN (PoEF) @SSH2           Ethernet         0/100 Base = 1           Memory (Moro SD)         SOHC upro 32de (SAMDISK)           Contact Upro Yount act On One channel         Contact Upro Yount act One channel           Contact Upro Yount act One Channel         Contact Upro Yount act One Channel           Contact Upro Yount act One Channel         Contact Upro Yount act One Channel           Contact Upro Yount act One Channel         Contact Upro Yount act On	Product	
Line Output Level +648V ± 3d8 Output Level +648V ± 3d8 Fequency Response 20Hz - 20Hz 2 TH0 + Natio (XEST/ DF) Less than 0.3% S/N Reio (XEMEL PF, A-WT0) Greater than 85d8 Ampliffe Description Built in 10W Class D Prover Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Output Power (80, 1Mt Sine wave) 3.7W(PoE), 10W (PoE)-(#55Mt 2 Power Amp Power Power Amp Power Power Poel/(#F - H127F) Power Poel/(#F - H127F) Power Power Poel/(#F		IP Ceiling Speaker
Output Level         +edBV ± 3dB           Frequency Response         20Hz - 20KHz           THD + N Rado (AEST/ LPP)         Less than 0.1%           SK Rado (AEST/ LPP)         Less than 0.1%           SK Rado (AEST/ LPP)         Cereater than R5dB           Amplifier         Description           Description         Built in 10W Class D           Power Amp         3/WPOE) 10W (PoE+) @SkHz           Output Power (BO, 1kHz Sine wave)         3/WPOE) 10W (PoE+) @SkHz           Network         Ethernet           Internal Memory         3/BUPS           Internal Memory (Micro SD)         SDHC upto 32GB (SANDISK)           Contact Input Dry contact         One channel           Contact Input Dry contact (MO)         One channel           General         -20 - +50°C (-4°F - +122°F)           Operating Temperature         -20 - +50°C (-4°F - +122°F)           Operating Temperature         -20 - +50°C (-4°F - +122°F)           Operating Temperature         -20 - +50°C (-4°F122°F)		
Proquency Response         20Hi - 20Hi -           THO + N Ratio (ARS17 LPF)         Less than 0.1%           S/N Ratio (ZKMz LPF, A-WTD)         Greater than 85dB           Amplifier	Line Output	
THD + NRatio (AES17 LPP)         Less than 0.1%           S/N Ratio (ZOHEL LPF, A-WTD)         Greater than 85d8           Amplifier         Encertption           Description         Built in 10W Class D           Power Amp         S/N (PoE), 10W (PoE-) @SH12           Outgut Power (BQ, 1Mtz Sine wave)         3.7W (PoE), 10W (PoE-) @SH12           Network         Ethemet           Betneret         01/100 Base-T           Ethemet         10 /100 Base-T           Ethemet         01/100 Base-T           Contact Topy         Internal Memory           Ethemoty         1 GBytes           External Memory         1 GBytes           External Memory March (Micro SD)         One channel           Contact Topy, Dry ordsat         One channel           Contact Topy, Dry ordsat (NO)         One channel           General         Sober C-447 E + 122*F)           Operating Temperature         20 - 450°C (-447 E + 122*F)           Operating Temperature         20 - 450°C (-447 E + 122*F)           Operating Temperature         20 - 450°C (-447 E + 122*F)           Operating Temperature         20 - 450°C (-447 E + 122*F)           Operating Temperature         20 - 450°C (-447 E + 122*F)           Operating Temperature         20 - 450°C (-4	Output Level	+6dBV ± 3dB
SyN Ratio (2004/z LPF, A-WTD)         Greater than 85d8           Amplifier         Exercitation           Description         Built in 10W Class D           Power Amp         Comput Power (80, 144/z Sine wave)         3.7W(PoE) 10W (PoE+) @SH/z           Network         Exercitation         Stream Power (80, 144/z Sine wave)         3.7W(PoE) 10W (PoE+) @SH/z           Network         Exercitation         Stream Power (80, 144/z Sine wave)         3.7W(PoE) 10W (PoE+) @SH/z           Network         Exercitation         Stream Power (80, 144/z Sine wave)         3.7W(PoE) 10W (PoE+) @SH/z           Network         Exercitation         Stream Power (80, 144/z Sine wave)         3.7W(PoE) 10W (PoE+) @SH/z           Memory         Ide Stream Power (80, 144/z Sine wave)         3.7W(PoE) 10W (PoE+) @SH/z         Stream Power (80, 144/z Sine wave)           Contact Unput. Dy contact (NO)         One channel         Stream Power (80, 144/z Sine wave)         Stream Power (80, 23 af type 1 Class 3)         Stream Power (80, 23 af type 2 Class 4)         Stream Power (80, 23 af type 2 Class 4)         Stream Power (80, 23 af type 2 Class 4)         Stream Power (80, 23 af type 2 Class 4)         Stream Power (80, 23 af type 2 Class 4)         Stream Power (80, 23 af type 2 Class 4)         Stream	Frequency Response	20Hz ~ 20kHz
Amplifier           Description         Built in 10W Class D           Power Amp	THD + N Ratio (AES17 LPF)	Less than 0.1%
Description         Built in 10W Class D           Power Amp	S/N Ratio (20kHz LPF, A-WTD)	Greater than 85dB
Power Amp         Power (B1, 1kHz Sine wave)         3.7W(PoE), 10W (PoE+) @5kHz           Network         Image: Comparing the section of t	Amplifier	
Output Power (BQ, 1kHz Sine wave)         3.7W(PoEL) @SkHz           Network            Ethemet         10/100 Base-T           Memory         16Bytes           Internal Memory         1 GBytes           External Memory (Micro SD)         SDHC upto 32GB (SANDISK)           Contact         One channel           Contact Input. Dry contact (NO)         One channel           General            Operating Temperature         20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature         20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature         20 ~ 4 50°C (-4°F ~ + 122°F)           Operating Temperature         20 ~ 4 50°C (-4°F ~ + 122°F)           Operating Tumidity         10 - 85% RH (Non-Condensing)           Weight         1 8Kg           Size         42 459° 142.5 (M)           Color         Back/White           Certificate         Safe (K S C 9832/9835, El \$5032/55035           Safe (K S C 9832/9835,	Description	Built in 10W Class D
Network           Ethenet         10/100 Base-T           Memory         16Bytes           Internal Memory         16Bytes           External Memory (Micro SD)         SDHC upto 32GB (SANDISK)           Contact         One channel           Contact Input. Dry contact (NO)         One channel           General         One channel           Operating Temperature         -20 ~ +50°C (-4°F ~ +122°F)	Power Amp	
Ethernet       10/100 Base-T         Memory       Internal Memory         Internal Memory       1 GBytes         External Memory (Micro SD)       SDHC upto 32GB (SANDISK)         Contact       SDHC upto 32GB (SANDISK)         Contact Input. Dry contact       One channel         Contact Input. Dry contact (NO)       One channel         General       -20~+50°C (-4°F ~+122°F)         Operating Temperature       -20~+50°C (-4°F ~+122°F)         Operating Temperature       10-85% RH (Non-Condensing)         Weight       1.8Kg         Size       020° 1142.5(H)         Color       Black/White         Color       Black/White         Corr       Black/White         Power       Emeteded MIC         PoEt       PoE (IEEE 802.3 af type 2 Class 4)	Output Power (8 $\Omega$ , 1kHz Sine wave)	3.7W(PoE), 10W (PoE+) @5kHz
Memory           Internal Memory           External Memory (Micro SD)           SDHC upto 32GB (SANDISK)           Contact           Contact Input. Dry contact           One channel           Contact (NO)           One channel           Contact Input. Dry contact (NO)           One channel           Operating Temperature           -20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature           -20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature           -20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature           -20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature           -20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature           -20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature           -20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature           -20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature           -20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature           -20 ~ + 50°C (-4°F ~ + 122°F)           Operating Temperature           Color           Edit           Pober           Pober	Network	
Internal Memory         I GBytes           External Memory (Micro SD)         SDHC upto 32GB (SANDISK)           Contact         Contact           Contact Input. Dry contact         One channel           Contact Output. Dry contact (NO)         One channel           General         -20 - +50°C (-4°F - +122°F)           Operating Temperature         -20 - +50°C (-4°F - +122°F)           Operating Humidity         10-85% RH (Non-Condensing)           Weight         1.8Kg           Size         0269° 142.5(H)           Color         Black/White           Color         Black/White           Power         EMC : KS C 9832/9835, EN 55032/55035           Posefety         PoE (IEEE 802.3 at type 1 Class 3)           PoE4         PoE4(IEEE 802.3 at type 2 Class 4)	Ethernet	10/100 Base-T
External Memory (Micro SD)       SDHC upto 32GB (SANDISK)         Contact       One channel         Contact Output. Dry contact (NO)       One channel         Contact Output. Dry contact (NO)       One channel         General       -20 ~ +50°C (-4°F ~ +122°F)         Operating Temperature       -20 ~ +50°C (-4°F ~ +122°F)         Operating Humidity       10-85% RH (Non-Condensing)         Weight       1.8Kg         Size       026°F142.5(H)         Color       Black/White         Color       Black/White         Certificate       Size (5 29832/9835, EN 55032/55035 Safety: KC 62368-1         Power       Poet         Poet       PoE (IEEE 802.3 at type 2 Class 4)         Embedded MIC       Embedded MIC	Memory	
Contact       One channel         Contact Input. Dry contact (NO)       One channel         Contact Output. Dry contact (NO)       One channel         General       -20 ~ +50°C (-4"F ~ +122"F)         Operating Temperature       -20 ~ +50°C (-4"F ~ +122"F)         Operating Humidity       10-85% RH (Non-Condensing)         Weight       1.8Kg         Size       0269°142.5(H)         Color       Black/White         Color       Black/White         Power       PoE (IEEE 802.3 af type 1 Class 3)         PoE+       PoE (IEEE 802.3 af type 2 Class 4)	Internal Memory	1 GBytes
Contact Input. Dry contact       One channel         Contact Output. Dry contact (NO)       One channel         General	External Memory (Micro SD)	SDHC upto 32GB (SANDISK)
Contact Output. Dry contact (NO)       One channel         General       -20~+50°C (-4°F~+122°F)         Operating Temperature       -20~+50°C (-4°F~+122°F)         Operating Humidity       10~85% RH (Non-Condensing)         Weight       1.8Kg         Size       0269°142.5(H)         Color       Black/White         Color       Black/White         Power       EMC: KS C 9832/9835, EN 55032/55035 Safety: KC 62368-1         Power       PoE (EEE 802.3 af type 1 Class 3)         PoE+       PoE+(IEE 802.3 af type 2 Class 4)	Contact	
General         Operating Temperature       -20 ~ +50°C (-4°F ~ +122°F)         Operating Humidity       10~85% RH (Non-Condensing)         Weight       1.8Kg         Size       0269°142.5(H)         Color       Black/White         Edificate       EMC : KS C 9832/9835, EN 55032/55035 Safety : KC 62368-1         Power       Poet         PoE4       PoE (IEEE 802.3 af type 1 Class 3)         PoE4       PoE4(IEEE 802.3 af type 2 Class 4)	Contact Input. Dry contact	One channel
Operating Temperature-20 ~ + 50°C (-4°F ~ + 122°F)Operating Humidity10~85% RH (Non-Condensing)Weight1.8KgSizeФ269°142.5(H)ColorBlack/WhiteCertificateEMC : KS C 9832/9835, EN 55032/55035 Safety : KC 62368-1PowerPoterPotePoE (IEEE 802.3 af type 1 Class 3) PoE+(IEEE 802.3 at type 2 Class 4)Embedded MIC	Contact Output. Dry contact (NO)	One channel
Operating Humidity10~85% RH (Non-Condensing)Weight1.8KgSize0269*142.5(H)ColorBlack/WhiteCertificateBlack/WhitePowerCertificatePowerDe (IEEE 802.3 af type 1 Class 3)PoEDe +(IEEE 802.3 at type 2 Class 4)Embedded MICCertificate	General	
Weight1.8kgSize\$269*142.5(H)ColorBlack/WhiteCertificateEMC : KS C 9832/9835, EN 55032/55035 Safety : KC 62368-1PowerPowerPotePoE (IEEE 802.3 af type 1 Class 3)PoEPoE+(IEEE 802.3 at type 2 Class 4)Embedded MIC	Operating Temperature	-20 ~ +50°C (-4°F ~ +122°F)
size\$269*142.5(H)ColorBlack/WhiteCertificateEMC: KS C 9832/9835, EN 55032/55035 Safety: KC 62368-1PowerPowerPoePoE (IEEE 802.3 af type 1 Class 3)PoE + Die HEE 802.3 at type 2 Class 4)PoE+(IEEE 802.3 at type 2 Class 4)	Operating Humidity	10~85% RH (Non-Condensing)
Color     Black/White       Certificate     EMC : KS C 9832/9835, EN 55032/55035 Safety : KC 62368-1       Power     PoE       PoE     PoE (IEEE 802.3 af type 1 Class 3)       PoE+     PoE+(IEEE 802.3 at type 2 Class 4)	Weight	1.8Kg
Certificate         EMC : KS C 9832/9835, EN 55032/55035           Safety : KC 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         Embedded MIC	Size	Ф269*142.5(Н)
Safety : KC 62368-1       Power       PoE     PoE (IEEE 802.3 af type 1 Class 3)       PoE+     PoE+(IEEE 802.3 at type 2 Class 4)	Color	Black/White
PoE     PoE (IEEE 802.3 af type 1 Class 3)       PoE+     PoE+(IEEE 802.3 at type 2 Class 4)	Certificate	
PoE     PoE (IEEE 802.3 af type 1 Class 3)       PoE+     PoE+(IEEE 802.3 at type 2 Class 4)	Power	
PoE+ PoE+(IEEE 802.3 at type 2 Class 4) Embedded MIC		PoE (IEEE 802.3 af type 1 Class 3)
	Embedded MIC	
Input Sensitivity Sound Level Meter	Input Sensitivity	Sound Level Meter
Frequency Response Sound Level Meter	Frequency Response	Sound Level Meter
Audio	Audio	
Built-in microphone     50Hz ~ 16kHz	Built-in microphone	50Hz ~16kHz



Audio Compression

WAV, MP3 in mono/stereo from 64 kbps to 320 kbps. Sampling rate from 16 kHz up to 48 kHz



Speaker	
Speaker Component	2Way 8" LF Drive & 2" HF Drive. Coaxial Cone type
Max. Sound Pressure Level (PoE : 3.7 Watt)	96dB
Max. Sound Pressure Level (PoE+ : 10 Watt)	99dB
Frequency Range (-10dB)	120Hz~20kHz
Sensitivity (1Watt)	90dB
Coverage Pattern	(HxV): 90°(1kHz) / 60°(4kHz)
Network Protocol	
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
System Integration	
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 PBX suppliers such as Cisco and Asterisk. Supported SIP features: DTMF (RFC2833) Supported codecs: PCMU, PCMA, speex/8000, speex/16000
ттѕ	Domestic Version : Korean
	Export Version : English(US, UK), German, French, Spanish, Russian
Audio Monitoring	
Audio Monitoring Event & Preset	Export Version : English(US, UK), German, French, Spanish, Russian



