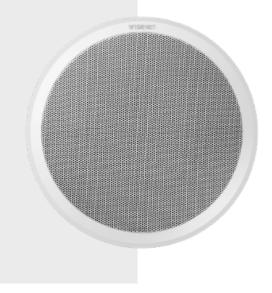
WISENET SPA-C100





SPA-C100

IP Ceiling Speaker

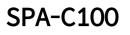


Key Features

- 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 Ω , 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



