GRANDSTREAM
CONNECTING THE WORLD

GSC3518HS & GSC3518CS & GSC3518WS

Smart Horn Speaker & Smart Column Speaker
& Smart Wall Speaker



Designed for enterprises, campuses, commercial complexes, hotels, and public spaces, the GSC3518 Series delivers high-performance IP audio across any environment. The lineup seamlessly combines intelligent communication, crystal-clear public paging, and emergency broadcasting into a single, scalable system. By leveraging SIP, multicast, Text-to-Speech (TTS), and AI noise cancellation, the series ensures crystal-clear and reliable audio transmission even in noisy surroundings. Featuring versatile horn, column, and wall speaker options with effortless installation and robust networking, the GSC3518 Series provides an adaptable, smart, and professional broadcasting solution tailored for both indoor and outdoor deployments.

Feature Highlights

Features 40 W, 50 W, and 70 W speaker models to deliver optimal volume and coverage across different spaces and applications.

GSC3518CS includes an SFP port for effortless integration into long-distance campus networks with low latency and high reliability.

Supports up to 16 SIP accounts, multicast, group paging, Push-to-Talk (PTT), and priority audio scheduling to adapt to complex paging environments.

Integrates three built-in microphones with AI noise cancellation, Text-to-Speech (TTS), and a customizable audio equalizer for optimal sound clarity.

GSC3518CS and GSC3518WS feature dual-band Wi-Fi 6 with seamless roaming and Bluetooth for flexible and reliable wireless connectivity.

Supports both IEEE 802.3bt PoE and local DC power input for simplified and versatile installation.

Enables network cascading and large-scale expansion, making it ideal for distributed, campus-wide deployments.

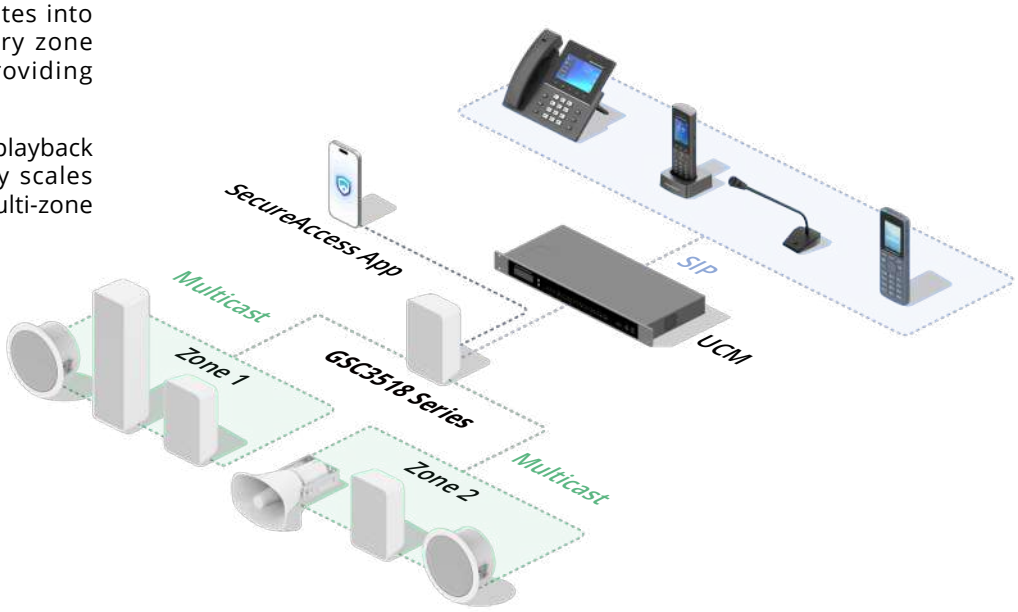
Equipped with alarm inputs/outputs and line-in/out ports to simplify device integration and system expansion.

Cloud-based management provides total remote control of your devices beyond the local web UI.

Multi-Zone Broadcasting

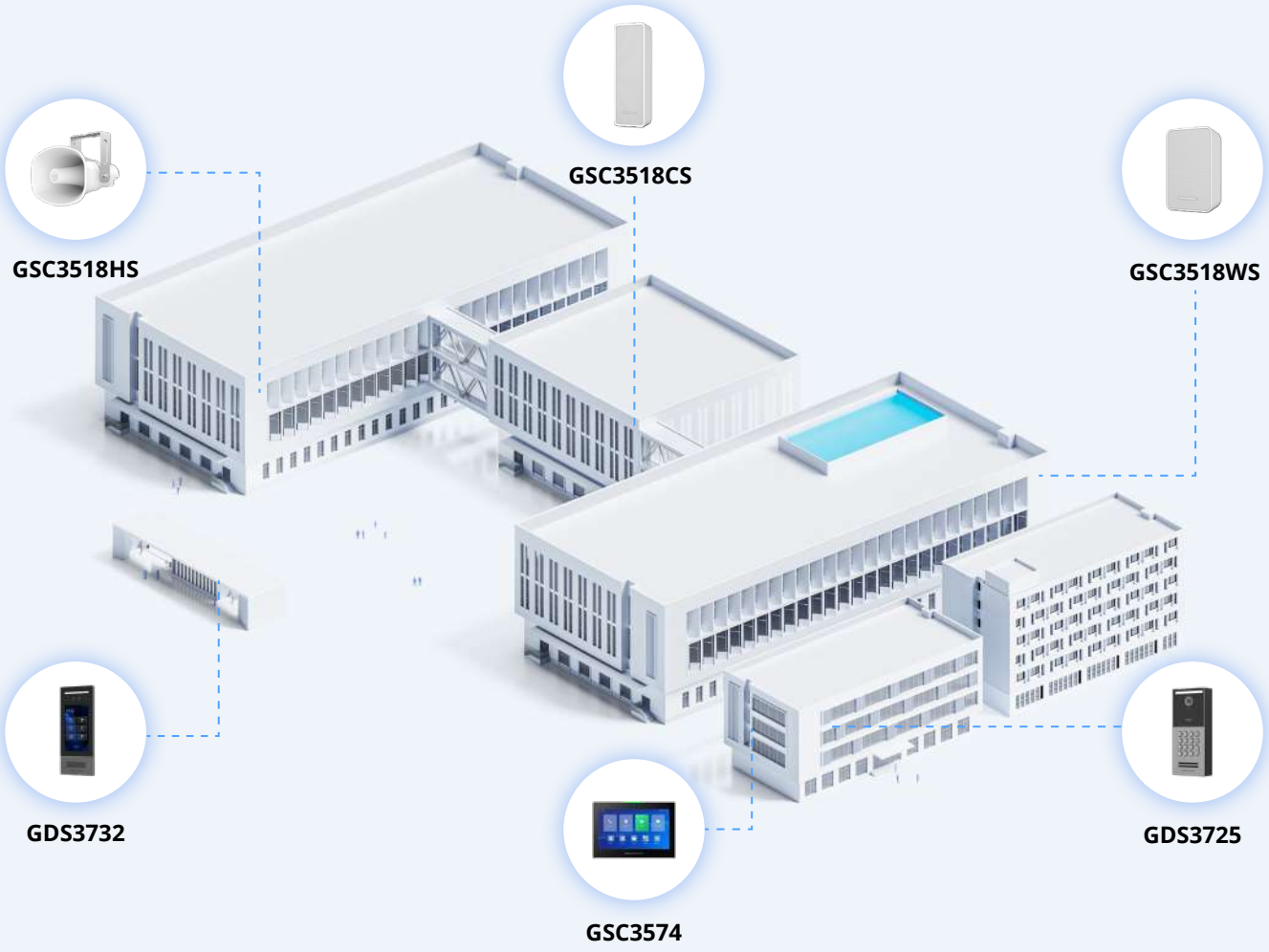
The GSC3518 series seamlessly integrates into multi-zone systems as either a primary zone manager or a managed endpoint, providing targeted audio delivery for distinct zones.

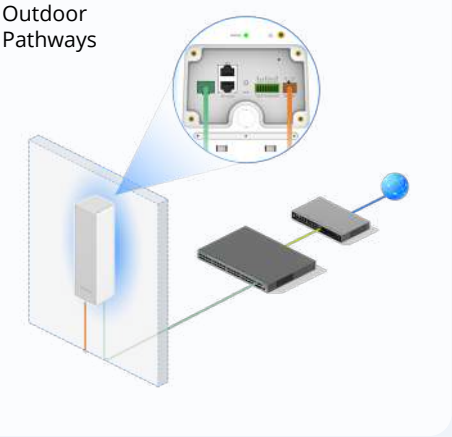
By ensuring synchronized, crystal-clear playback across designated areas, it effortlessly scales broadcast coverage to meet complex multi-zone communication needs.



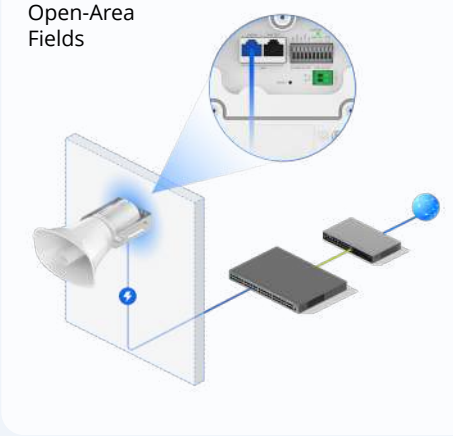
Standard Deployment

When deployed alongside Grandstream networking and security solutions, such as switches, access points, and door stations, these three models deliver targeted audio across multiple zones in large enterprise campuses and commercial complexes. Powered by SIP integration, multicast support, and seamless system linkage, they enable flexible zoned broadcasting, scheduled daily paging, and priority emergency notifications to create an efficient, intelligent network audio ecosystem.









Note: The deployment diagram is for reference only. Network connectivity varies by model:
- GSC3518CS: PoE, SFP fiber, and Wi-Fi
- GSC3518WS: PoE and Wi-Fi
- GSC3518HS: PoE

Application Scenarios

Each model in the series is engineered for specific environmental demands, combining targeted wattage and specialized hardware interfaces.

GSC3518HS

Featuring a 50 W output, IP66 weatherproof enclosure, and dual network ports for PoE pass-through, GSC3518HS is engineered for long-throw sound projection and simplified daisy-chained wiring across high-noise outdoor spaces like factories, industrial parks, and public plazas.

GSC3518CS

Delivering a high-power 70 W output with an IP66 weatherproof rating, SFP fiber port, and Wi-Fi 6, GSC3518CS overcomes distance limitations to project clear, wide-coverage audio across sprawling outdoor campuses, broad perimeter zones, and large commercial complexes.

GSC3518WS

Equipped with a 40 W output, Wi-Fi 6, a local USB interface with microphone support, a TF card slot and an external speaker output, GSC3518WS provides flexible, high-performance audio coverage ideal for indoor environments like classrooms, office hallways, and retail spaces.

Text-to-Speech Output

Supports advanced text-to-speech (TTS) conversion, turning typed texts into clear, real-time voice broadcasts. This enables automated announcements and messaging, maintaining continuous operational efficiency even without dedicated on-site personnel.



Intelligent Audio Equalization

Featuring a built-in audio equalizer, GSC3518CS and GSC3518WS allow users to flexibly adjust volume, balancing, and audio frequencies.

With three preset modes alongside customizable settings, users can optimize audio output effects to meet diverse broadcasting and playback needs.

- Customized: Flexible configuration to adapt to the specific needs of different scenarios.
- Vocal Boost: Optimizes voice clarity for SIP calls and broadcasting announcements.
- Bass Boost: Enhances low-frequency response for rich background music playback.
- Treble Boost: Boosts high frequencies to maintain sound clarity across large spaces and long hallways.

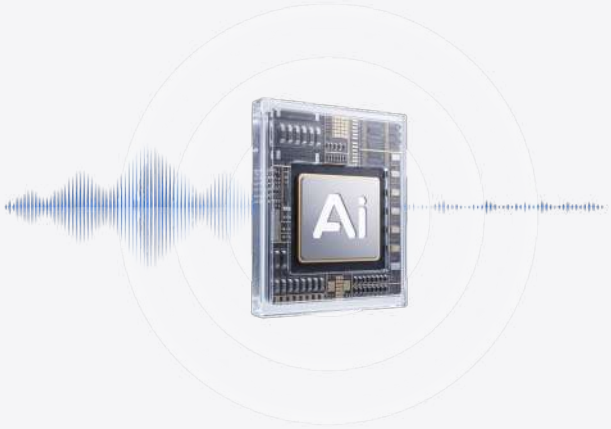


Advanced Audio Optimization

The GSC3518 series features an AI-driven noise cancellation algorithm that dynamically filters out ambient noise, delivering crystal-clear voice transmission. In addition, GSC3518WS incorporates advanced acoustic feedback cancellation to eliminate feedback distortion, ensuring a seamless, high-quality audio experience in any environment.

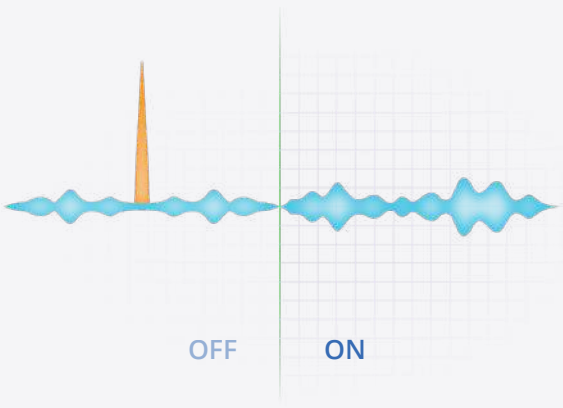
Audio Feedback Cancellation

GSC3518 Series



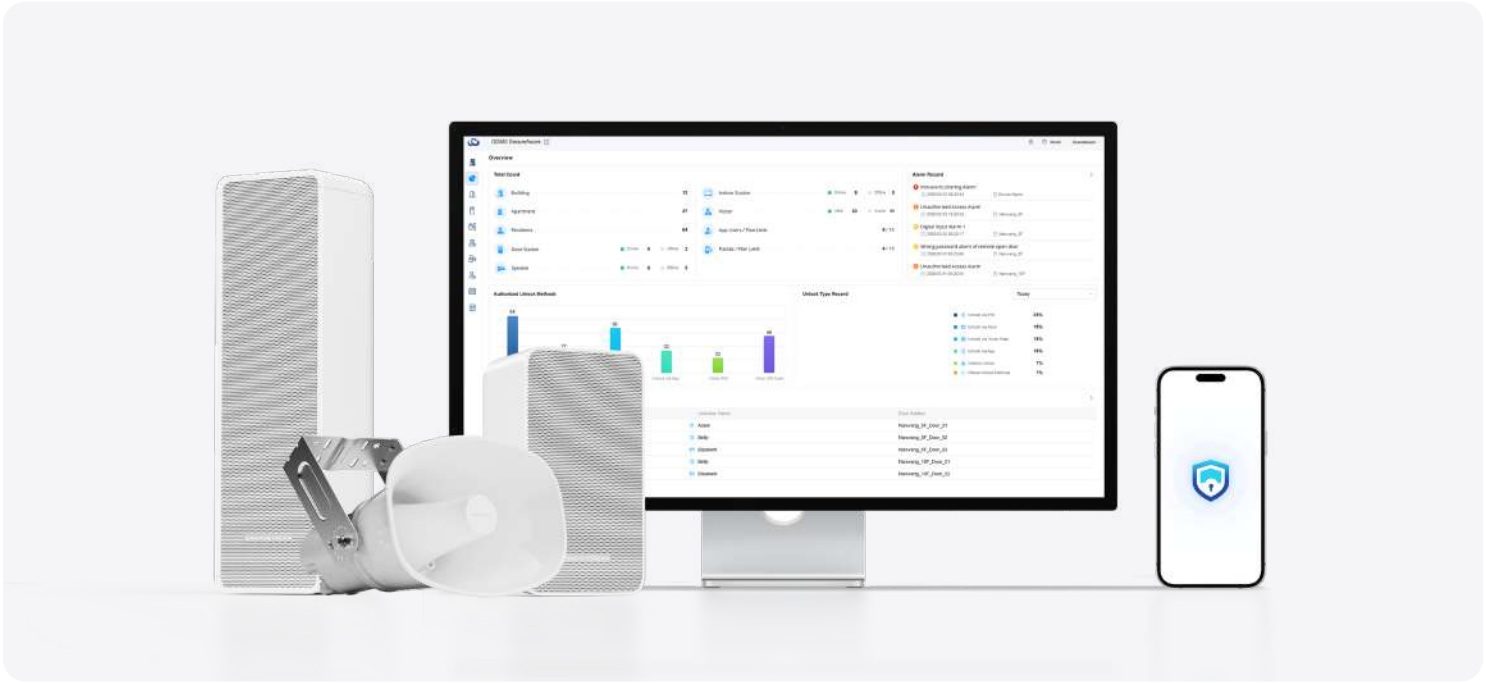
Audio Feedback Cancellation

GSC3518WS

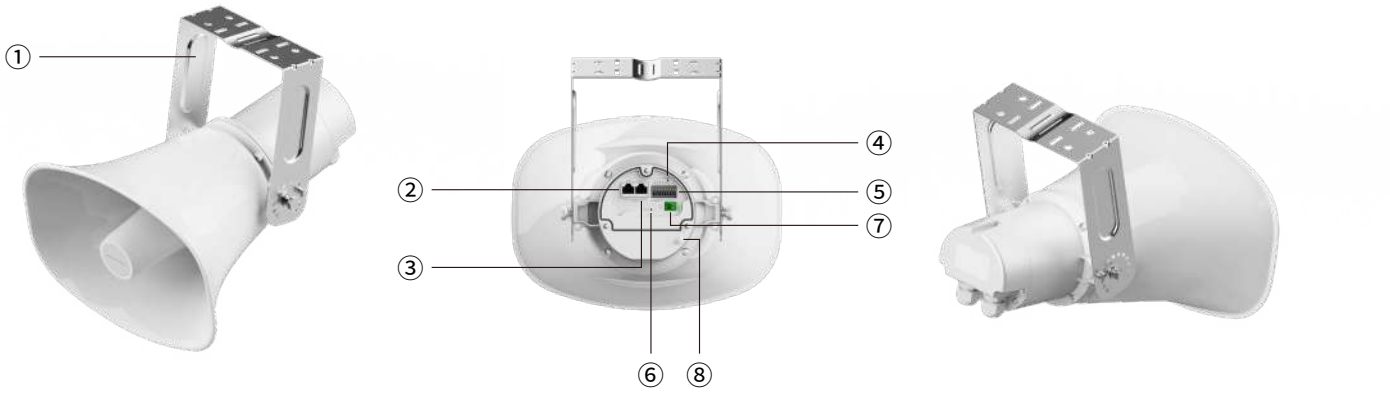


Flexible Management

Beyond traditional local web UI management, GSC3518 series also supports a powerful cloud-based management system, including GDMS UC, GDMS SecureAccess and Grandstream SecureAccess app. It integrates seamlessly with other Grandstream devices, such as door stations and intercoms, allowing for unified device management and delivering a comprehensive security and communication solution.



Hardware Overview



GSC3518HS

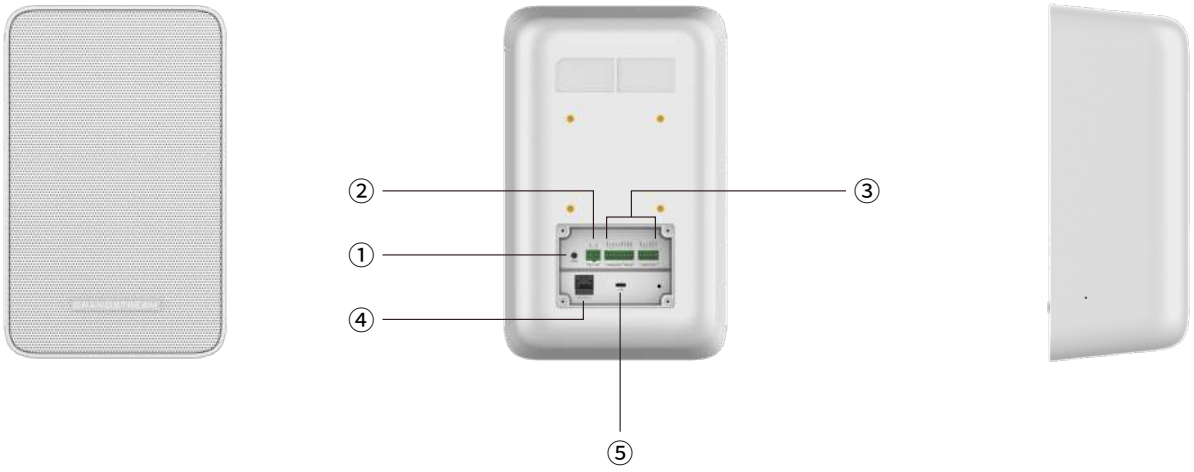
① Pre-Installed Mounting Bracket	② Network Port (PoE In)	③ Network Port (PoE Out)	④ LED Indicator
⑤ Terminal Block	⑥ Reset	⑦ DC In	⑧ Grounding



GSC3518CS

① LED Indicator	② Grounding	③ SFP	④ Network Port
⑤ Network Port (PoE In)	⑥ Reset	⑦ Terminal Block	⑧ DC In

Hardware Overview



GSC3518WS

① **Reset**	② **DC In**	③ **Terminal Block**	④ **Network Port (PoE In)**
⑤ **USB-C Port (External Mic Only)**			

Technical Specifications

		GSC3518HS	GSC3518CS	GSC3518WS
Basic	Unit Dimensions	204.3 mm × 285.3 mm × 324.6 mm (8.04" × 11.23" × 12.78")(H × W × D)	530 mm × 164 mm × 145 mm (20.87" × 6.46" × 5.71")(H × W × D)	295 mm × 185 mm × 115 mm (11.61" × 7.28" × 4.53")(H × W × D)
	Package Dimensions	330 mm × 255 mm × 390 mm (12.99" × 10.04" × 15.35")(L × W × H)	713 mm × 207 mm × 125 mm (28.07" × 8.15" × 4.92")(L × W × H)	418 mm × 245 mm × 156 mm (16.46" × 9.65" × 6.14")(L × W × H)
	Unit Weight	2.87 kg (6.33 lb) (with mounting kits)	6.8 kg (14.99 lb) (with mounting kits)	2.44kg (5.38 lb) (with mounting kits)
	Package Weight	3.913 kg (8.63 lb)	8.373 kg (18.46 lb)	3.89kg (8.58 lb)
	Installation Methods	Wall Mount, Pole Mount		Wall Mount
	Material	• PC + ABS Cover • Aluminum Frame • Stainless Steel Bracket	• PC Top & Bottom Covers • Aluminum Alloy Frame • SUS304 Stainless Steel Grille	• PC+ABS Casing • Metal Bracket • SGCC Steel Grille
Audio	Speaker	50 W HD speaker	70 W HD speaker	40 W HD speaker
	Frequency	270 Hz–13.2 kHz	100 Hz–20 kHz	
	Sensitivity	109 dB at 1 m/1 W (1 kHz)	88 dB at 1 m/1 W (1 kHz)	
	Max SPL	Up to 126 dB	Up to 106 dB	Up to 103 dB
	Microphone	3 built-in microphones, with a pickup distance of up to 26.25 ft (8 m)		
Interfaces	Network Ports	• 1 × 10/100 Mbps port with integrated PoE/PoE+/PoE++ input • 1 × 10/100 Mbps port with integrated PoE/PoE+ output	• 1 × 10/100 Mbps port with integrated PoE++ input • 1 × 10/100 Mbps port • 1 × 10/100 Mbps SFP port	1 × 10/100 Mbps port with integrated PoE++ input
	Alarm In / Out	• 2 × Alarm In (Dry contact, IN1/IN2) • 1 × Alarm Out (Relay, NO/COM)	• 2 × Alarm In (Dry contact, IN1) • 1 × Alarm Out (Relay, NO/COM)	• 3 × Alarm In (Dry contact, IN1/IN2/IN3) • 1 × Alarm Out (Relay, NO/COM)
	Line In / Out	• 1 × Differential Line In (IN+, IN-, GND) • 1 × Differential Line Out (OUT+, OUT-, GND)	1 × Differential Line In (IN+, IN-, GND)	• 1 × Differential Line In (IN+, IN-, GND) • 1 × Differential Line Out (OUT+, OUT-, GND)
	Speaker Out	N/A		1 × SPK Out
	Power Input Port	1 × DC IN		
	SD Card	N/A		1 × TF Card Slot
	USB	N/A		1 × USB 2.0 Type-C (USB Microphone Only)
	Button	1 × Reset Button		
Connectivity	Bluetooth	N/A	Bluetooth 5.4	
	Wi-Fi	N/A	• Dual-band (2.4 GHz and 5 GHz) • Wi-Fi 6 (IEEE 802.11a/b/g/n/ac/ax) • 2.4 GHz Bandwdith: 20/40 MHz • 5 GHz Bandwdith: 20/40 MHz	
LED	System LED	1 tri-color LED for device tracking and status indication		
Power	Power Supply	24–48 V DC, 96 W	48 V DC, 2 A	With external speaker: 24 V DC, 4 A Without external speaker: 24 V DC, 3 A
	PoE Standard	• IEEE 802.3bt Class 8 (PoE In) • IEEE 802.3at Class 4 (PoE Out)	IEEE 802.3bt Class 8 (PoE In)	
	Max Output PoE Power	25 W	N/A	
	Max Input PoE Power	71.3 W		
	Max Input PoE Voltage	57 V DC		
Environmental Endurance	Ingress Protection	IP66 (waterproof cable gland included)		N/A
	Operating Temperature	-30 °C to 60 °C (-22 °F to 140 °F)		-10 °C to +55 °C (14 °F to 131 °F)
	Storage Temperature	-40 °C to 60 °C (-40 °F to 140 °F)		-20 °C to +60 °C (-4 °F to 140 °F)
	Humidity	10%–90%, non-condensing		
Compliance	Compliance	FCC, IC, CE, RCM		

Key Features

		GSC3518HS	GSC3518CS	GSC3518WS
System	Network Protocol	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, RTCP-XR,HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SSH, TFTP, NTP, STUN, LLDP-MED, SIMPLE, LDAP,TR-069, 802.1x, TLS, SRTP, IPv6, OpenVPN®		
	Security	User and administrator level passwords, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS, 802.1 × media access control, secure boot, random default password, unique security certificate per device, dual firmware image with recovery mechanism		
	QoS	Layer 2 QoS (802.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS		
	Upgrade	Firmware upgrade via TFTP / HTTP / HTTPS or local HTTP upload		
	Provisioning	Mass provisioning using GDMS/TR069 or AES encrypted XML configuration file, API / SDK support		
Telephony Features	Telephony Features	• 16 SIP Accounts • SIP Paging, Multicast Paging, Group Paging, PTT, call-waiting with priority override		
Audio Features	Audio Codecs	G.711μ/a, G.722 (wideband), G.726-32, G.729, G.723.1, iLBC, Opus		
	DTMF Support	In-band and out-of-band DTMF (In audio, RFC2833, SIP INFO)		
	Audio & Voice Processing	VAD, CNG, AEC, PLC, AJB, AGC, ANS		
	Audio Playback & Streaming	Supports RTSP/HTTP Streaming, Online Music, and Local Music Playback		
	Text-to-Speech	Yes		
	AI Noise Cancellation	Yes		
	Audio Equalizer	N/A	Yes	
	Audio Feedback Cancellation	N/A		Yes
Management Platform	Local Management	Local Web UI which comes with the embedded controller		
	Cloud Management	Supports cloud-based management via GDMS UC, GDMS SecureAccess and Grandstream SecureAccess app		
Localization	Multi-Language	English, German, French, Spanish, Portuguese, Russian, Chinese		

Package Contents

		GSC3518HS	GSC3518CS	GSC3518WS
Standard Items	Primary Unit	1 × Smart Horn Speaker (Bracket pre-installed)	1 × Smart Column Speaker	1 × Smart Wall Speaker
	Manual and License	1 × Quick Installation Guide 1 × Certification Regulatory Information		
	Installation Accessories	1 × Terminal Cover 4 × Expansion Bolts 2 × Waterproof Cable Glands 3 × Pan Head Machine Screws with Washers (M3 × 10 mm) 2 × Rubber Washers 2 × Hex Head Machine Screws with Washers (M4 × 10 mm)	1 × Speaker Plate 1 × Swivel & Tilt Joint 1 × Wall Plate 1 × Terminal Cover 12 × Hex Socket Machine Screws (M5 × 14 mm) 4 × Expansion Bolts 6 × Pan Head Machine Screws (M3 × 10 mm) 1 × Cable Gland Insert (2-Hole) 1 × Cable Gland Insert (1-Hole) 1 × Cable Gland Seal 2 × Cable Gland Body 1 × Screw Plug 3 × O-Rings 1 × Pan Head Tapping Screws with Washer (ST2.3 × 8 mm) 1 × Safety Lanyard 1 × Adjustment Tool	1 × Mounting Bracket 1 × Terminal Cover 2 × Pan Head Tapping Screws (ST4 × 30 mm) 2 × Plastic Wall Plugs 4 × Pan Head Tapping Screws (ST3 × 8 mm) 4 × Hex Socket Machine Screws (M5 × 14 mm) 1 × Pan Head Tapping Screw with Washer (ST2.3 × 8 mm)

Ordering Information

	Item	Description
GSC3518 Series	GSC3518HS	Smart Horn Speaker
	GSC3518CS	Smart Column Speaker
	GSC3518WS	Smart Wall Speaker

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