

Building SIP Intercom Solutions

Grandstream's GSC3500 Series





For facilities such as logistic warehouses, commercial spaces, schools, hospitals, offices, and recreation centers, rapid communication is both a necessity and a challenge. This is primarily due to both the size of the building and mobile nature of the users within it. Intercom systems are a natural solution. They enable users to communicate to an entire facility, or certain parts of it, quickly and efficiently in a way that other endpoints simply couldn't achieve. The resulting benefits are greater connection between users, quicker response times, increases in productivity, and in some cases greater security.


Grandstream developed their line of IP intercom solutions to deliver an affordable and effective facility communications network that integrates seamlessly with their unified communications solution. This results in a comprehensive deployment that has more functionality and customizability. Continue reading to learn more about the GSC3500 series, its technical specifications, example deployments, and how it integrates with Grandstream's other communication devices.



GSC3500 Series


SIP Intercom and Speakers

GSC3510 SIP Intercom Speaker/Microphone



The GSC3510 allows users to build powerful voice and intercom solutions that expand security and communication. This robust SIP intercom device offers 2-way voice functionality with both a high-fidelity 8W HD speaker and 3 directional microphones with that offer a 4.2 meter pickup distance. The GSC3510 supports a wide-range of peripherals including Bluetooth devices, built-in whitelist and blacklists to easily block unwanted calls, multi-channel paging, integrated dual-band Wi-Fi and advanced acoustic echo cancellation.

GSC3505 1-Way Public Address SIP Speaker



A 1-way public address SIP speaker, the GSC3505 creates a public address announcement solution that expands the security and facility communications. This SIP speaker offers crystal clear HD audio with a high-fidelity 8-Watt HD speaker. The GSC3505 supports Bluetooth devices, a built-in whitelist and blacklist to easily block unwanted calls, SIP and multicast paging, and integrated dual-band Wi-Fi.



Integrated dual-band
802.11 a/b/g/n WiFi
and Bluetooth



Features SIP paging,
multicast paging, call-
waiting with priority
override



One 10/100Mbps
network port with PoE/
PoE+



Full-band and wide-band
audio codec support
including Opus & G.722

Deployment Scenarios



Schools and Universities

Our GSC series enables schools and universities to page announcements, notifications, and staff and students throughout the building or to specific rooms. The GSC3510 is a perfect choice for classrooms and lecture halls where two-way communication is needed. Hallways and larger rooms, such as gymnasiums, can benefit from the GSC3505 where two-way communication is not needed.

SMB and Enterprise Offices

Large enterprises and mobility-focused offices often require a paging/intercom solution to reach users throughout a facility. For example, the GSC3505 can allow medical offices to communicate with waiting patients and page doctors or nurses. Enterprises can page entire departments when organizing meetings and teams with the GSC3505, and smaller rooms within the offices can be connected with the GSC3510 for quick two-way communication.



Warehousing and Logistics

Constantly on the move in a fast-paced work environment, warehouse and logistics staff require a intercom system to stay efficient in their day-to-day operations. The GSC3505 can create a network of SIP speakers that a floor-manager can access to organize teams for specific products, incoming orders, outgoing shipments, and more. The GSC3510 can be installed to enable two-way communications, allowing staff to communicate back to floor-managers.



GSC3500 Series Grandstream Integration



UCM Series of IP PBX

A natural addition to any deployment utilizing Grandstream as the primary solution, the GSC3500 series integrates seamlessly with their entire product portfolio. The most common integration will start with the UCM Series of IP PBXs. A network of GSC devices can be configured entirely through the UCM series.

Desktop IP Phones

Grandstream IP phones allow users to communicate through the GSC intercom solution simply by calling an extension or extension group. Direct access to GSC extensions can be programmed on to our IP phone using multipurpose keys or an extension module.

Cordless IP Phones

Grandstream's mobile endpoints, such as the WP820 Wi-Fi cordless IP phone and their series of cordless DECT phones, can be used for on-the-go networks where paging while away from the desktop is a necessity.



GDS Series of Facility Access Systems

By pairing with Grandstream's GDS facility access devices, the GSC3500 series can be used to create a security solution. The GSC3510 can be deployed to enable two-way communication with a GDS3700 device. This allows a business to keep a facility secured while enabling staff to speak with visitors and allow/deny access from specific locations throughout the building, such as a security office.

GWN Series of Wi-Fi Access Points

For light infrastructure deployments, the GSC series includes built-in Wi-Fi support to connect to a SIP communications networks wirelessly. Grandstream's GWN series are the ideal AP for such a deployment as their advanced QoS allows for prioritizing voice connections.

