



## Grandstream Networks, Inc.

GDS37xx

Connecting GDS37xx with GRP26xxx



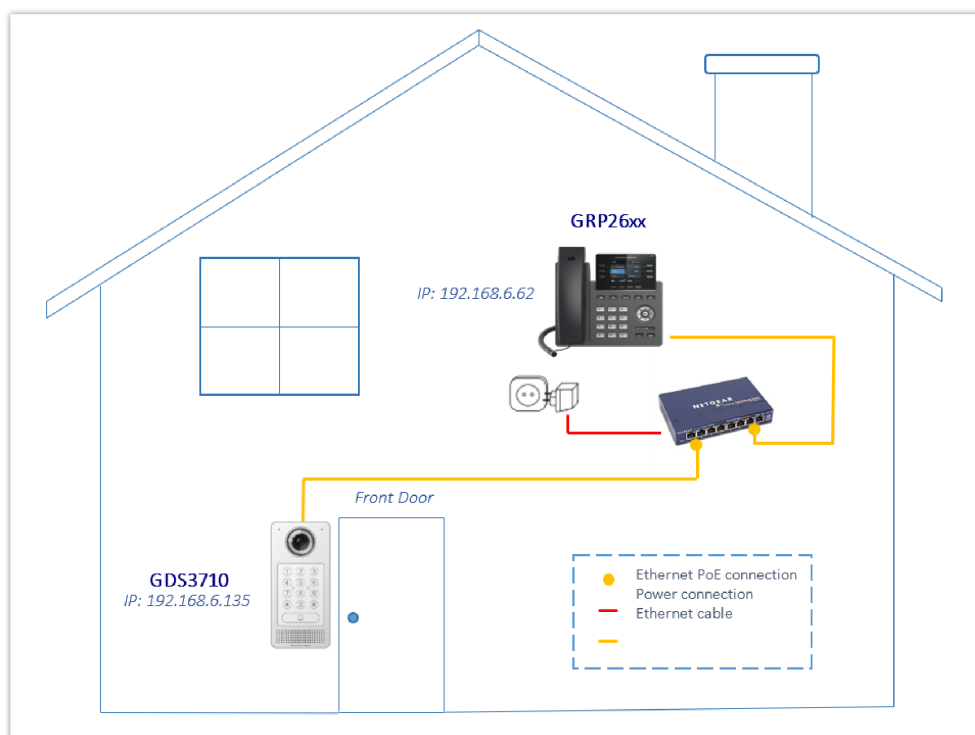
# Connecting GDS37xx with GRP26xxx

The GDS37xx can be connected with a SIP phone in 2 different ways, either using peering mode (without a SIP server) or through a SIP server/registrar.

This guide illustrates the needed configuration for integrating the GDS37xx with GRP26xx Series for both peering and using SIP server scenarios.

## PEERING WITHOUT USING SIP SERVER

In this scenario, we assume that the GDS37xx is installed in a small warehouse at the front door and the GRP26xx IP Phone inside to monitor and control the access of the premise. Visitors need to press the doorbell button on the GDS37xx to initiate a video/audio call, and the related person at the GRP26xx IP Phone side can open the door remotely to allow the visitors to get in.



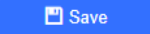
*GRP26xx IP Phone peered with the GDS3710*

- The IP address used by the GDS3710 is 192.168.6.135
- The IP address used by the GRP26xx IP Phone is 192.168.6.62

## GDS37xx Configuration Settings

The GDS37xx needs to be configured with the IP address of the GRP26xx IP Phone, the related SIP port, and remote PIN for door opening. Please refer to the following configuration steps:

1. Access the GDS37xx Web GUI and navigate to **"Door System Settings→Basic Settings"**.
2. Choose the action to be taken when the doorbell is pressed, three options are available:
  - **Call Doorbell Number:** when Doorbell is pressed, a call will be made to the "Number Called When Door Bell Pressed"
  - **Control Doorbell Output (Digital Output 1):** when Door Bell is pressed electronic lock for Output 1 is opened.
  - **Both of Above:** When selected, both Call Doorbell Number and Control Doorbell Output options are enabled. In our case, we will choose **"Call Doorbell Number"**.

- Under **Number 1 Called When Door Bell Pressed** field, enter the GRP26xx IP address and port number which is **192.168.6.62:5060** in our example.
- Enter the **“Remote PIN to Open the Door”** in order to open the door via DTMF while in active call with the GDS37xx, the remote PIN used in our example is **“123456”**.
- Click  button to apply changes.

<ul style="list-style-type: none"> <li>LiveView</li> <li>Door System Settings <ul style="list-style-type: none"> <li>Basic Settings</li> <li>Keep Door Open</li> <li>Schedule</li> <li>Holiday</li> </ul> </li> <li>System Settings</li> <li>Account</li> <li>Phone Settings</li> <li>Video &amp; Audio Settings</li> <li>Alarm Settings</li> <li>Email &amp; FTP Settings</li> <li>Maintenance</li> <li>Status</li> </ul>	Unlock Holding Time(s)	<input type="text" value="5"/>
	Number of Snapshots when Door Opened	<input type="text" value="4"/>
	Snapshot when Door Opened	<input checked="" type="checkbox"/> via FTP <input type="checkbox"/> via Email
	Snapshot when Doorbell Pressed	<input type="checkbox"/> via FTP <input checked="" type="checkbox"/> via Email
	Snapshot Delay when Door Opened(s)	<input type="text" value="0"/>
	Snapshot Delay when Doorbell Pressed(s)	<input type="text" value="0"/>
	Doorbell Call Out Account	<input type="text" value="Account 1"/>
	Doorbell Mode	<input type="text" value="Call Doorbell Number"/>
	Doorbell Call Mode	<input type="text" value="Serial Hunting"/>
	Press Doorbell Schedule 1	<input type="text" value="All Day"/> <a href="#">Edit Schedule</a>
Number 1 Called When Doorbell Pressed	<input type="text" value="192.168.6.62:5060"/>	
Press Doorbell Schedule 2	<input type="text" value="All Day"/> <a href="#">Edit Schedule</a>	
Number 2 Called When Doorbell Pressed	<input type="text"/>	
Press Doorbell Schedule 3	<input type="text" value="All Day"/> <a href="#">Edit Schedule</a>	
Number 3 Called When Doorbell Pressed	<input type="text"/>	
Press Doorbell Schedule 4	<input type="text" value="All Day"/> <a href="#">Edit Schedule</a>	
Number 4 Called When Doorbell Pressed	<input type="text"/>	
Remote PIN to Open Door	<input type="text" value="*****"/>	
Enable DTMF Open Door	<input type="checkbox"/>	
Disable Auto Answer	<input type="checkbox"/>	
Enable Doorbell Button to Hang Up Call	<input checked="" type="checkbox"/>	

Door System Settings

- You need to make sure that the Direct IP Call feature is enabled from the GDS37xx Web GUI under **Phone Settings** → **Phone Settings** → **Enable Direct IP Call**.

**Phone Settings**

STUN Server	<input type="text"/>
Local RTP Port	5004
Use Random Port	<input type="checkbox"/>
Auto On-Hook Timer(s)	300
Ringing Timeout(s)	30
DNS Cache Expiration Time(m)	30
DNS Cache Duration(m)	30
SIP TLS Certificate	<input type="text"/>
SIP TLS Private Key	<input type="text"/>
SIP TLS Private Key Password	<input type="text"/>
<b>Enable Direct IP Call</b>	<input checked="" type="checkbox"/>
Enable two-way SIP Calling	<input type="checkbox"/>
SIP Proxy Compatibility Mode	<input checked="" type="checkbox"/>
SIP Packetization Compatibility Mode	<input checked="" type="checkbox"/>
Allow Reset Via SIP NOTIFY	<input type="checkbox"/>

*Enable Direct IP Call*

## GRP26xx IP Phone Configuration

The GRP26xx IP Phone-related account needs to be set as “Active”, and the “Local SIP Port” needs to match the port configured on GDS37xx. Please refer to the following steps for configuring the GRP26xx IP Phone in order to interconnect with the GDS37xx.

1. Access GRP26xx IP Phone Web GUI→**Account**→**General Settings** and set “Account Active” to **Yes**, then click on **Save and Apply** button to apply the new changes.

**Accounts**

Account Swap

Phone Settings

Network Settings

Programmable Keys

**General Settings** SIP Settings Codec Settings Call Settings Advanced Settings Dial Plan Feature Codes

**Account Register**

Account Active

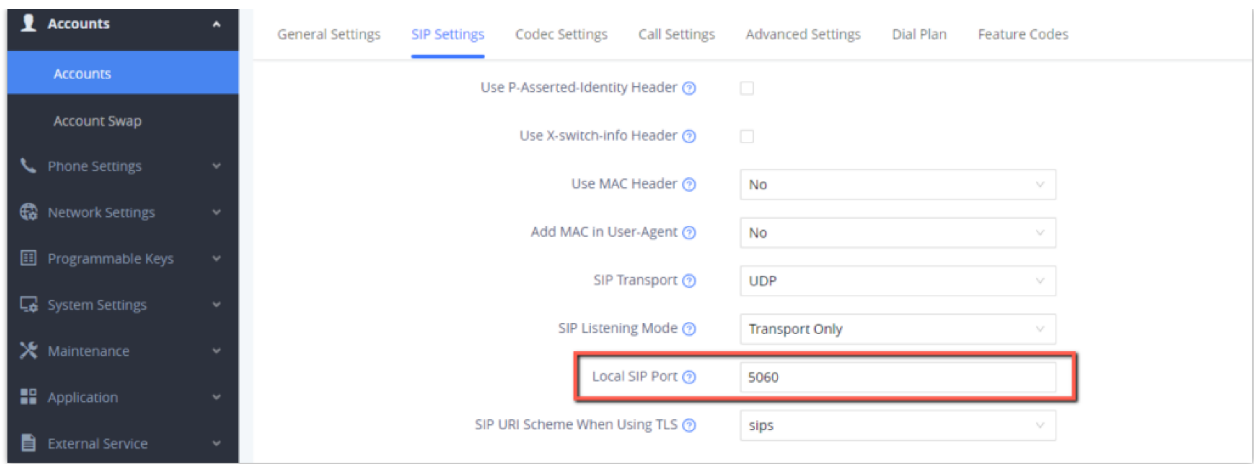
Account Name

SIP Server

*GRP26xx Account(x) Settings*

2. Navigate to **Account**→**SIP Settings** and verify that the **Local SIP Port** configured on the GRP26xx IP Phone is the same as the one on the GDS37xx.

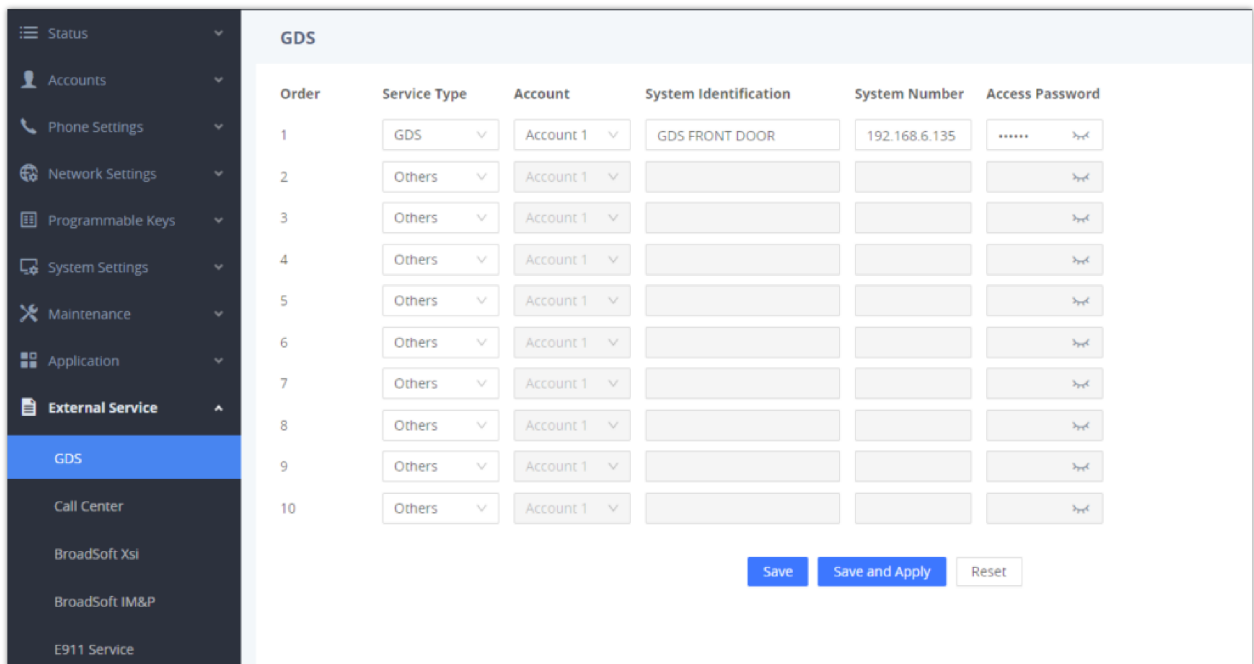
Make sure the option “Use Random Port” is set to “No” under **Settings** → **General Settings**.



Account(x) SIP Settings

3. Navigate to **External Service** → **GDS** to configure GDS settings as explained on the following:

- Set the **Service Type** to **GDS**.
- Select the related account, in our example, the account used is **Account 1**.
- Specifies the **System Identification**, to identify the GDS37xx, in our example its **"GDS FRONT DOOR"**.
- Specifies the **System Number** which is the GDS37xx number, the system number used in our example is **192.168.6.135**.
- Configures the **Access Password** for opening the door remotely and it should match the password configured under **"Remote PIN to Open the Door"** on the GDS37xx Web GUI settings. The password used in our example is **"123456"**.



GDS37xx Configuration Settings on GRP26xx IP Phone

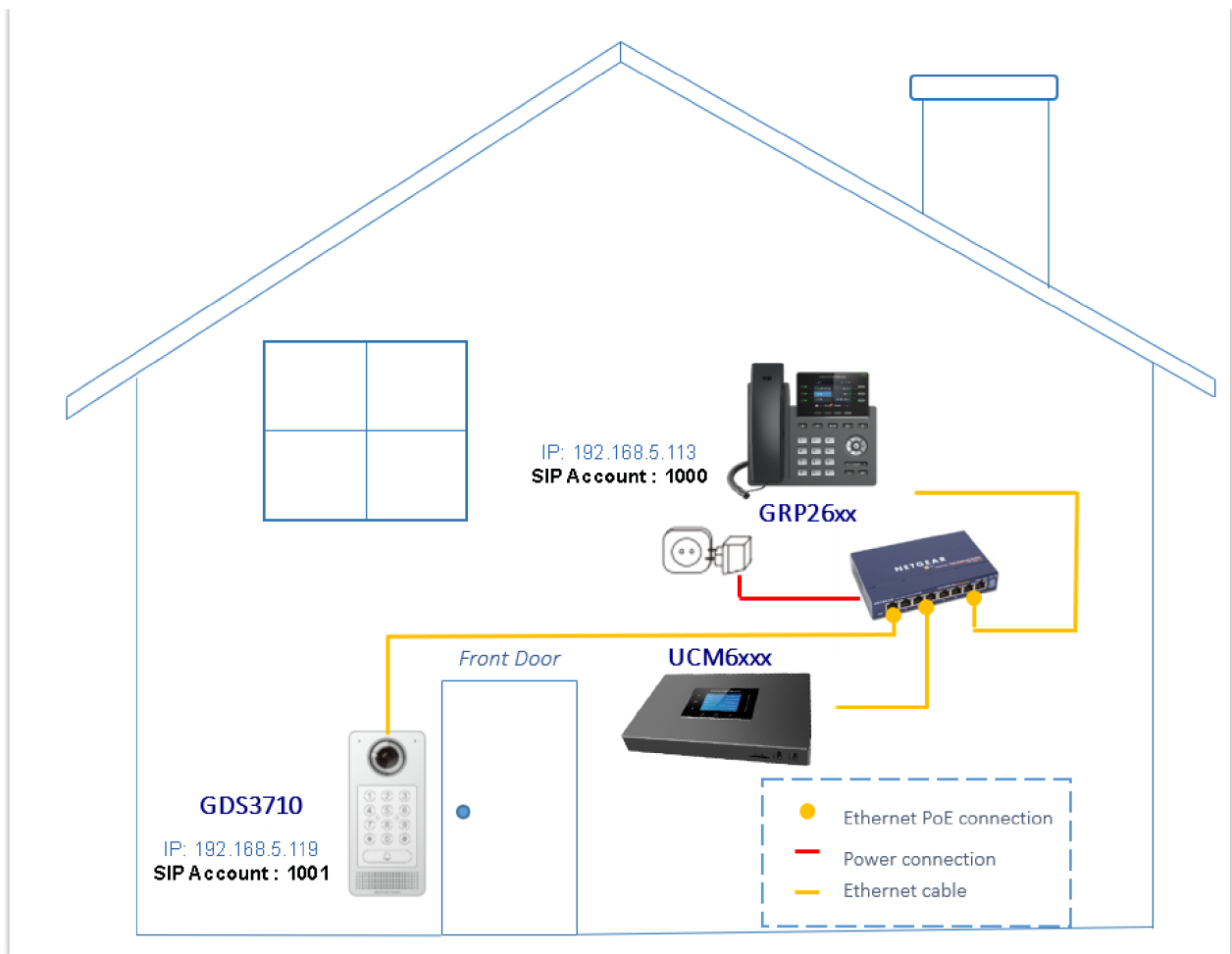
4. Press **Save and Apply** button to apply the new settings.

The GRP26xx IP Phones support up to 10 GDS37xx items.

## PEERING USING SIP SERVER

In this scenario, we assume that the GDS37xx is configured with a SIP account, and the GRP26xx IP Phone is also configured with a SIP account under the same SIP server.

We recommend using Stateless SIP server in this type of installations, Stateful SIP servers may not work.



GRP26xx Connected to GDS3710 through UCM6XXX

- The IP address used by the GDS3710 is 192.168.5.119 and it is configured with SIP account **1001**.
- The IP address used by the GRP26xx IP Phone is 192.168.5.113 and it is configured with SIP account **1000**.
- The SIP server has the IP address 192.168.5.54

## GDS37xx Configuration Settings

As mentioned in the previous diagram, the GDS37xx should be registered with a SIP account in order to interact with the GRP26xx IP Phone through the SIP server.

The GDS37xx SIP settings are available under the Web GUI → **Account** → **Account(x)**.

Account 1	
<b>SIP Basic Settings</b>	
Account Active	<input checked="" type="checkbox"/>
SIP Server	192.168.5.54
Secondary SIP Server	
Outbound Proxy	
Backup Outbound Proxy	
DNS Mode	A Record
SIP User ID	1001
Authentication ID	1001
Password	*****
Display Name	GDS FRONT DOOR
TEL URI	Disabled

After configuring the SIP account correctly, the user needs to configure the door system settings as detailed in the following steps:

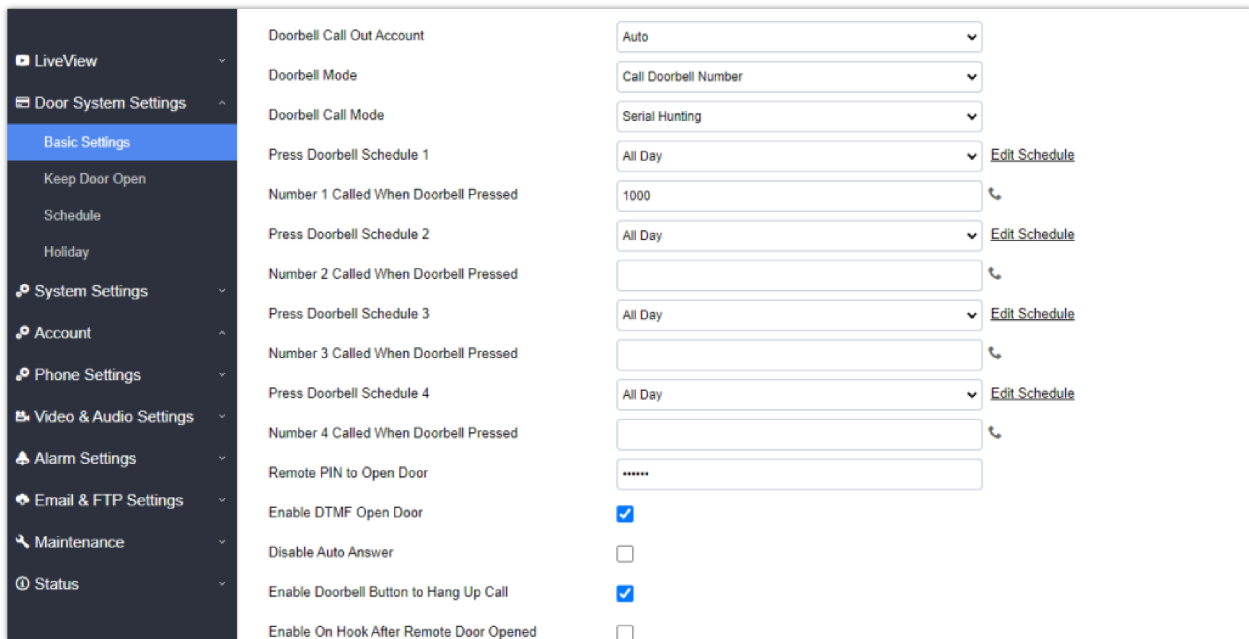
1. Navigate to **Door System Settings**→**Basic Settings** then set the following:
  - **Doorbell Mode:** Call Doorbell Number.
  - **Number Called When Door Bell Pressed:** the GRP IP Phone number which is **1000** in our example.
  - **Remote PIN to Open the Door:** the remote PIN used in our example is **"123456"**.





Please make sure to check **"Enable DTMF Open Door"**

Please make sure to check "Enable DTMF Open Door"

2. Click  button to apply changes.

The following figure shows an example of the configuration.



Doorbell Call Out Account	Auto	
Doorbell Mode	Call Doorbell Number	
Doorbell Call Mode	Serial Hunting	
Press Doorbell Schedule 1	All Day	<a href="#">Edit Schedule</a>
Number 1 Called When Doorbell Pressed	1000	
Press Doorbell Schedule 2	All Day	<a href="#">Edit Schedule</a>
Number 2 Called When Doorbell Pressed		
Press Doorbell Schedule 3	All Day	<a href="#">Edit Schedule</a>
Number 3 Called When Doorbell Pressed		
Press Doorbell Schedule 4	All Day	<a href="#">Edit Schedule</a>
Number 4 Called When Doorbell Pressed		
Remote PIN to Open Door	.....	
Enable DTMF Open Door	<input checked="" type="checkbox"/>	
Disable Auto Answer	<input type="checkbox"/>	
Enable Doorbell Button to Hang Up Call	<input checked="" type="checkbox"/>	
Enable On Hook After Remote Door Opened	<input type="checkbox"/>	

*Door System Settings*

## GRP26xx IP Phone Configuration Settings

A SIP account needs to be registered on the GRP26xx IP Phone side as well to interact with the GDS37xx through the same SIP server.

The GRP26xx SIP settings are available under the Web GUI→**Accounts** →**Account(x)** →**General Settings**.

The screenshot displays the 'Accounts' configuration page. On the left is a dark sidebar with navigation options: Status, Accounts, Account Swap, Phone Settings, Network Settings, Programmable Keys, System Settings, Maintenance, Application, and External Service. The main content area is titled 'Accounts' and has tabs for Account 1 through Account 6. Under 'Account 1', the 'General Settings' tab is active, showing the 'Account Register' form. The form fields are as follows:

- Account Active:
- Account Name:
- SIP Server:
- Secondary SIP Server:
- Tertiary SIP Server:
- Outbound Proxy:
- Secondary Outbound Proxy:
- SIP User ID:
- SIP Authentication ID:
- SIP Authentication Password:
- Name:
- Tel URI:
- Voicemail Access Number:

At the bottom of the form are three buttons: 'Save', 'Save and Apply', and 'Reset'.

*General Settings*

After configuring the SIP account correctly, users need to configure the door system settings as detailed on the following steps:

1. Navigate to **Settings**→**External Service** and set the following:
  - Set the **Service Type** to **GDS**.
  - Select the related account, in our example, the account used is **Account 1**.
  - Specifies the **System Identification**, to identify the GDS37xx, in our example, it is **"GDS FRONT DOOR"**.
  - Specifies the **System Number** which is the GDS37xx number, the system number used in our example is **1001**.
  - Configures the **Access Password** which is the **"Remote PIN to Open the Door"** configured on the GDS37xx Web GUI settings. The password used in our example is **"123456"**.
2. Press the "Save and Apply" button to apply the new settings.



Order	Service Type	Account	System Identification	System Number	Access Password
1	GDS	Account 1	GDS FRONT DOOR	1001	*****
2	Others	Account 1			
3	Others	Account 1			
4	Others	Account 1			
5	Others	Account 1			
6	Others	Account 1			
7	Others	Account 1			
8	Others	Account 1			
9	Others	Account 1			
10	Others	Account 1			

*GDS Settings*

- The GRP26xx IP Phones support up to 10 GDS37xx items.
- GRP2601/GRP2602/GRP2603/GRP2604/GRP2612/GRP2613 series support audio only.
- GRP2624/GRP2634/GRP2636/GRP2614/GRP2615/GRP2616/GRP2650/GRP2670 series support audio and video (JPEG) when integrated with GDS37xx.

## OPEN DOOR FEATURE

GRP26xx IP Phones offer a powerful integration with GDS37xx Door System and allow users to remotely open the door, initiate calls to the GDS37xx, and get real-time audio/video (from the GDS37xx) or only audio stream.

Once someone presses the ring button on the GDS37xx, the door system will initiate automatically a call to the configured destination. In both cases, the users will have the ability to either answer the call, reject it or press the **OpenDoor** softkey.

Users can open the door using the following methods:

### 1. Pressing the “OpenDoor” Softkey without answering the call:

Once the users press the “OpenDoor” softkey, a SIP Message containing the code for “Remote PIN for Open the Door” will be sent to the GDS3710 to remotely open the door.

### 2. OpenDoor after answering the call:

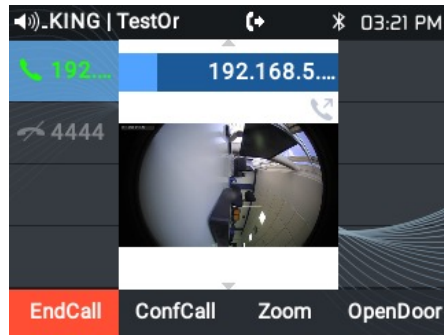
- Press the “**OpenDoor**” Softkey, then a SIP Message containing the code for “Remote PIN for Open the Door” will be sent to the GDS3710 to remotely open the door.
- Dial the code for “**Remote PIN for Open the Door**” followed by “#” (for example “**123456#**”), and then DTMF codes will be sent to open the door.

Pressing the “Reject” Softkey will reject the call received from the GDS37xx.

### Note

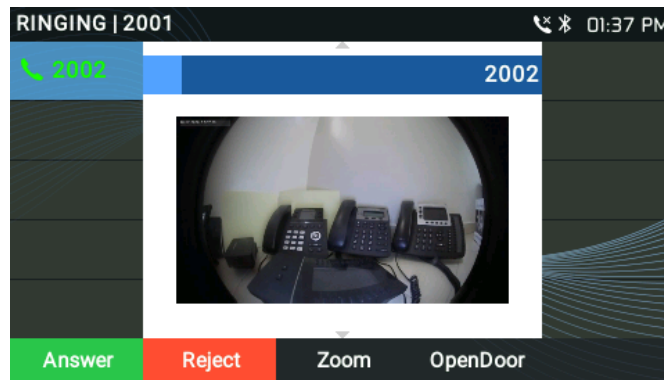
Please note that when the GDS371x device is added to UCM Remote Connect, then the MJPEG stream function will not work with the GRP26xx phone models, in this case, it is recommended to use a video phone model such as the GXV34xx to stream video feed from the GDS371x.

## GRP2624/GRP2634 IP Phones



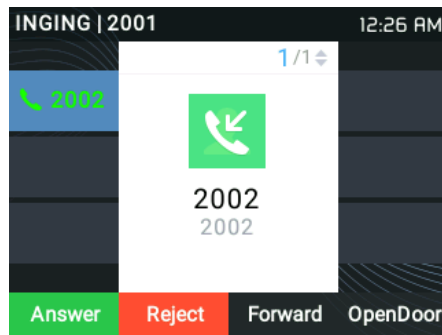
GDS3710 Video/Audio Call on  
GRP2624/GRP2634

## GRP2614/GRP2615/GRP2616 IP Phones



GDS3710 Video/Audio Call on GRP2614/GRP2615/GRP2616

## GRP2612/GRP2613 IP Phones



GDS37xx Audio Call on GRP2612/GRP2613

## SUPPORTED DEVICES

The following table shows GRP26xx products supporting GDS37XX integration:

Model	Supported Audio	Supported Video (JPEG)	Firmware
GRP2612(P/W)/GRP2613	Yes	No	1.0.1.23+
GRP2614/GRP2615/GRP2616	Yes	Yes	1.0.1.23+

<b>GRP2624/GRP2634</b>	Yes	Yes	1.0.1.48+
<b>GRP2636</b>	Yes	Yes	1.0.9.22+
<b>GRP2650/GRP2670</b>	Yes	Yes	1.0.9.22+
<b>GRP2601/GRP2602/GRP2603/GRP2604</b>	Yes	No	1.0.1.41+

### **Need Support?**

Can't find the answer you're looking for? Don't worry we're here to help!

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