

Grandstream Networks, Inc.

GDS3705

Audio Door Access System

User Manual



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Changes or modifications to this product not expressly approved by Grandstream, or operation of this product in any way other than as detailed by this User Manual, could void your manufacturer warranty.

WARNING

Please do not use a different power adaptor with your devices as it may cause damage to the products and void the manufacturer warranty.



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<http://www.grandstream.com/support/faq/gnu-general-public-license/gnu-gpl-information-download>



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CHANGE LOG

This section documents significant changes from previous versions of user manual for GDS3705. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

Firmware Version 1.0.0.20

- This is the initial version for GDS3705.



DOCUMENT PURPOSE

This document describes the basic concept and tasks necessary to use and configure your GDS3705. And it covers the topic of connecting and configuring the GDS3705, making basic operations and the call features. Please visit <http://www.grandstream.com/support> to download the latest “GDS3705 User Manual”.

This guide covers following topics:

- [Product Overview](#)
- [Getting Started](#)
- [Getting to Know GDS3705](#)
- [GDS3705 Application Scenarios](#)
- [GDS3705 Peripheral Connections](#)
- [GDS3705 Home Web Page](#)
- [GDS3705 Settings](#)
- [Factory Reset](#)
- [Experiencing the GDS3705](#)



WELCOME

Thank you for purchasing Grandstream GDS3705 Audio Door Access System, an innovative IP based powerful door system. The GDS3705 Audio Door Access system features industry-leading SIP/VoIP for 2-way audio to SIP phones. It contains integrated PoE, HD loudspeaker, RFID card reader, and more.

GDS3705 IP Audio Door Access System can be managed by Grandstream's free windows-based management software: GDS Manager is a client/server based software which provided RFID card management and basic reports for the door entrance. GDS3705 is ideal for entry places such as banks, hotels, schools, office buildings, retail stores and small warehouses.



PRODUCT OVERVIEW

Feature Highlights

The following table contains the major features of the GDS3705.

Table 1: GDS3705 Features in a Glance

	• Broad interoperability with most 3rd party SIP/VoIP devices and leading SIP/NGN/IMS platforms. • 2 Channels Input/Output alarm. • RS485, Wiegand (26 bits) Input and Output. • RFID card reader. • Weather proof, vandal resistant.
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Technical Specifications

The following table resumes all the technical specifications including the protocols / standards supported, voice codecs, telephony features and upgrade/provisioning settings for GDS3705.

Table 2: GDS3705 Technical Specifications

Network Protocols	TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS local upload and mass provisioning using TR-069 (pending), ARP/RARP, ICMP, DNS, DHCP, SSH, SMTP, NTP, STUN, TLS, SRTP.
SIP/VoIP Support	Broad interoperability with most 3 rd party SIP/VoIP devices and leading SIP/NGN/IMS platforms.
Voice Codecs	G.711μ/a-law, G.722, G.723.1, G.726-32, G.729A/B, iLBC, in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO), AEC.
QoS	Layer 2 QoS (802.1Q, 802.1P).
Security	User and administrator level access control (pending), MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS, 802.1Q.
Upgrade / Provisioning	Firmware upgrade via HTTP/HTTPS, mass provisioning using TR-069 (Pending) or AES encrypted XML configuration file.
Audio Input	Integrated dual microphones.
Audio Output	Built-in HD Loudspeaker (2 Watt), sound quality suitable for up to 3 m.
Keypad / Buttons	12-Metal Keys plus a Metal doorbell button.
RFID	125KHz: EM4100 (1 RFID card and 1 RFID key fob included).
Alarm Input	Yes, 2 channels, Vin < 15V, for door sensor or other devices.



Alarm Output	Yes, 2 channels, 125VAC/0.5A, 30VDC/2A, Normal Open or Normal Close, for electric lock, light switch or other devices.
Network Interface	10M/100M auto-sensing.
Expansion Interface	RS485, Wiegand (26 bits) input and output.
Dimensions and Weight	173mm(H) x 80mm(W) x 36mm(D). 0.6 Kg.
Power Supply	PoE (Power over Ethernet) IEEE 802.3af Class 3, or 12VDC/1A connection (AC power adapter not included).
Ingress Protection	Weather proof, vandal resistant, with support for extra back reinforcing metal plate
Temperature and Humidity	Operation: -30°C to 60°C (-22°F to 140°F) Storage: -35°C to 60°C (-31°F to 140°F) Humidity: 10% to 90% Non-condensing
Protection Class	IP66 (EN60529), IK09 (IEC62262).
Compliance	FCC: Part 15; Subpart B; Subpart C; MPE CE: EN 55032; EN 50130; EN 61000-3-2; EN 61000-3-3; EN 60950-1; EN 300 330; EN 301 489-1; EN 301 489-3; EN 62311 RCM: AS/NZS CISPR 22/24; AS/NZS 4268; AS/NZS 60950.1 IC: ICES-003; RSS310



GETTING STARTED

This chapter provides basic installation instructions including the list of the packaging contents and information for obtaining the best performance using the GDS3705 Audio Access Door System.

Equipment Packaging

Table 3: Equipment Packaging

• 1 x GDS3705 • 1 x Installation Bracket • 1 x Drilling Template • 3 x Rubber Gaskets (for sealing the back cable) • 6 x Back Panel Screws • 6 x Bracket Screws and Anchors • 4 x Anti-tamper screws • 1 x Anti-Tamper Hex Key	• 1 x Wiegand Cable • 1 x RFID Card (more can be purchased from Partner/reseller) • 1 x Key Fob (more can be purchased from Partner/reseller) • 1 x Frame Back Cover • 1 x Quick Installation Guide • 1 x GPL License
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Figure 1: GDS3705 Package

Note: Check the package before installation. If you find anything missing, contact your system administrator

Description of the GDS3705

Below figures show the component of the back and front view of GDS3705 IP Audio Access Door System:

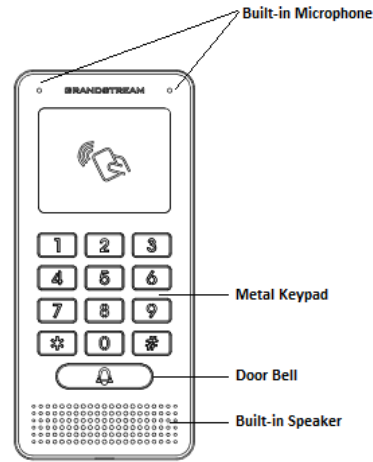


Figure 2: GDS3705 Front View

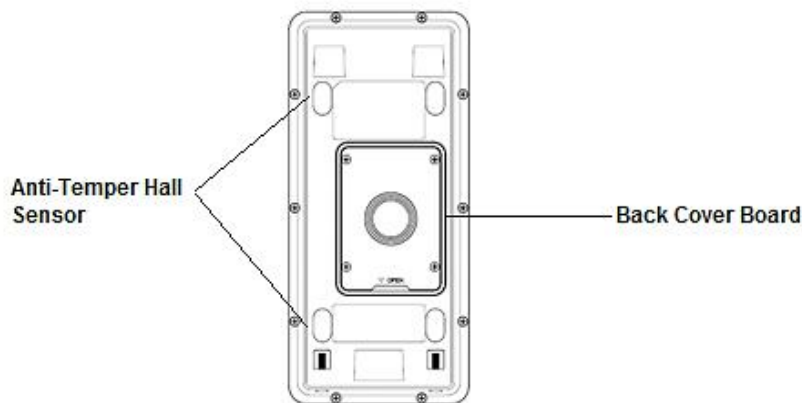


Figure 3: GDS3705 Back View

Connecting and Setting up the GDS3705

The GDS3705 can be powered using PoE or PSU:

Using PoE as power supply (Suggested)

- Connect the other end of the RJ45 cable to the PoE switch.
- PoE injector can be used if PoE switch is not available.

Using the power adapter as power supply (PSU not provided)

- Connect the other end of the RJ45 cable to network switch or router.
- Connect DC 12V power source via related cable to the corrected PIN of the GDS3705.

GDS3705 Wiring Connection

Table 4: GDS3705 Wiring Connection

Jack	Signal	Function	Note	
J2 (Basic) 3.81mm	TX+	Ethernet PoE 802.3af Class 3, 12.95W	Orange / White	Data
	TX-		Orange	
	RX+		Green / White	
	RX-		Green	
	PoE_SP2		Blue + Blue/White	Please twist these two wires together and connect to SP1, SP2 respectively even the PoE NOT used.
	PoE_SP1		Brown + Brown/White	
	RS485_B	RS485		
	RS485_A			
	GND	Power Supply	DC 12V, 1A Minimum	
	12V			
J3 (Advanced) 3.81mm	GND	Alarm GND		
	ALARM1_IN+	Alarm In	Vin<15V	
	ALARM1_IN-			
	ALARM2_IN+			
	ALARM2_IN-			
	NO1	Alarm Out	Relay: 30VDC/2A; 125VAC/0.5A	
	COM1			
	NO2	Electric Lock	For "Fail Secure" (Locked when Power Lost) Strike, connect COM2 & NO2 . For "Fail Safe" (Open when No Power) Magnetic Lock, connect COM2 & NC2 . Relay: 30VDC/2A; 125VAC/0.5A	
	COM2			
	NC2			
J4 (Special) 2.0mm	GND	Wiegand Power GND	Black	Both Input and Output MUST be connected
	WG_D1_OUT	Wiegand Output Signal	Orange	GDS3705 function as Output of Card Reader, Connect Pin 1, 2, 3
	WG_D0_OUT		Brown	
	LED	Wiegand Output LED Signal	Blue	For External Card Reader; Or GDS3705 as Receiver Only
	WG_D1_IN	Wiegand Input Signal	White	For External Card Reader Connect Pin 1,4,5,6,7,8
	WG_D0_IN		Green	
	BEEP	Wiegand Output BEEP Signal	Yellow	For External Reader Only
	5V	Wiegand Power Output	Red	For External Card Reader Only. 12VDC powered External Card Reader must use own power source, can NOT use this Pin.



GDS3705 Back Cover Connections

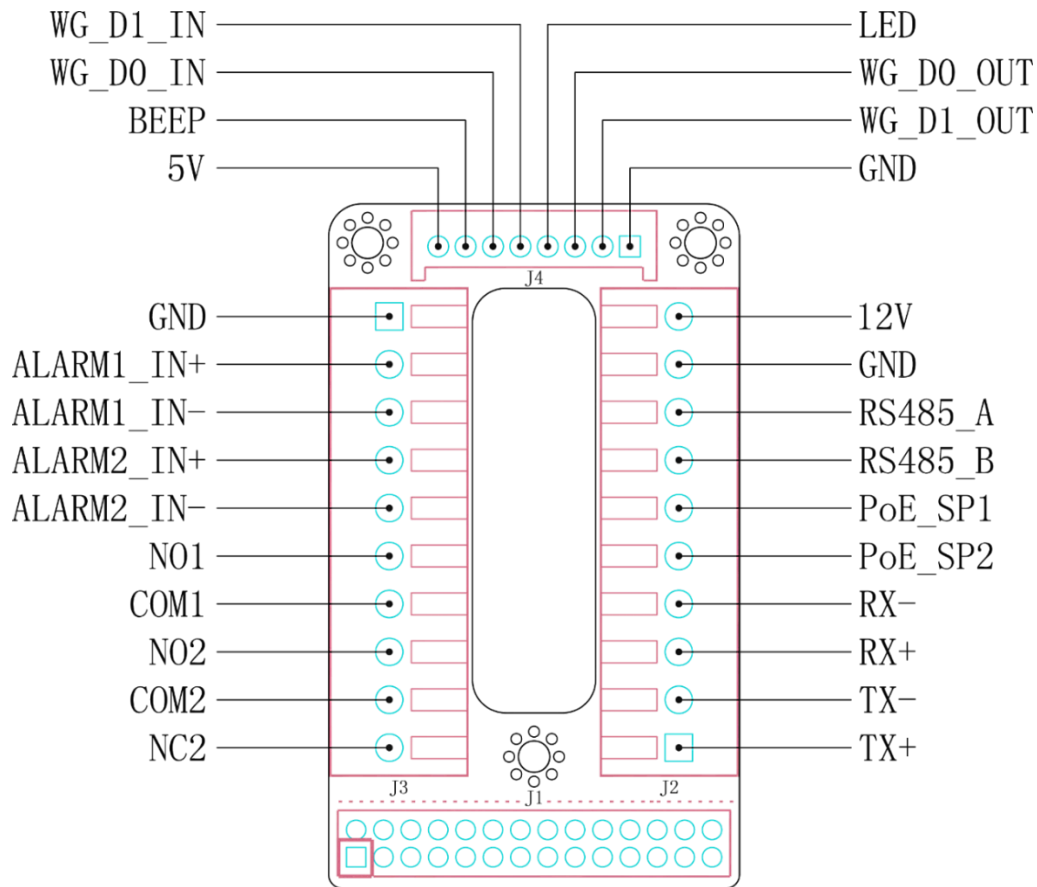


Figure 4: GDS3705 Back Cover Connections

Connection Example

To connect the GDS either by using PoE or PSU follow steps below:

- Open the Back-Cover Board of the GDS3705 which should look like following figure.

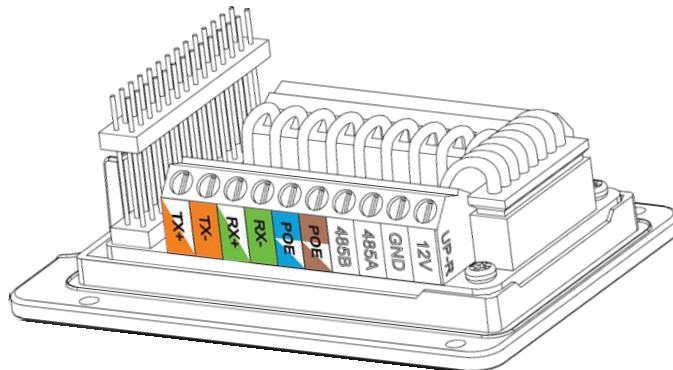


Figure 5: GDS3705 Back Cover

Power GDS3705 using PoE

- Cut into the plastic sheath of your Ethernet cable, then Unwind and pair as shown below. Use the TIA/EIA 568-B standard, which define pin-outs for using Unshielded Twisted Pair cable and RJ-45 connectors for Ethernet connectivity.



Figure 6: Connection Example

- Connect each wire of the cable to its associate on the Back Cover of the GDS3705 to power the unit using PoE.

Power GDS3705 using PSU

- To power the unit using PSU, use a multimeter to detect the polarity of your Power Supply, then connect GND to negative pole and 12V to positive pole of the PSU.

Note: If the user doesn't have PoE switch, there is no need to connect the Blue and Brown wires to the GDS3705 since these wires are used to power the unit via Ethernet.

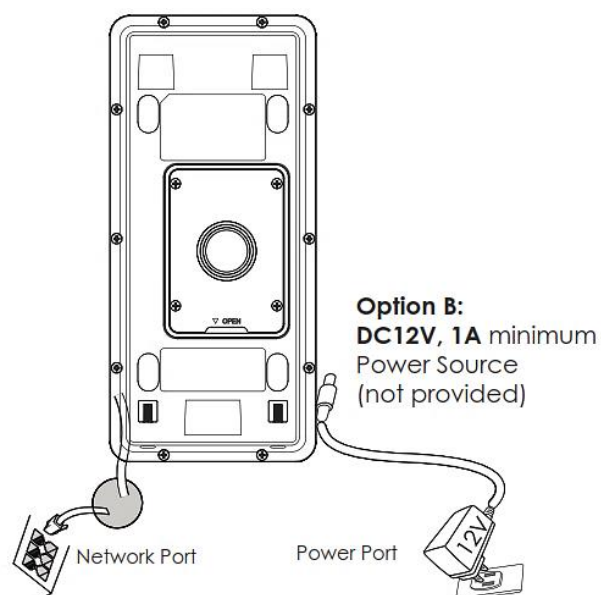


Figure 7: Powering the GDS3705

GETTING TO KNOW GDS3705

The GDS3705 has an embedded Web server to respond to HTTP/HTTPS GET/POST requests. Embedded HTML pages allow users to configure the GDS3705 through all available Web browsers in the internet.

Connecting GDS3705 to Network with DHCP Server

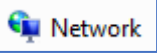
The GDS3705 by default has a DHCP client enabled, it will automatically get IP address from DHCP server.

Windows Platform

Two ways exist for Windows users to get access to the GDS3705:

UPnP

By default, the GDS3705 has the UPnP feature turned ON. For customers using Windows network with UPnP turned on (most SOHO routers support UPnP), it is very easy to access the GDS3705:

1. Find the “Network” icon  on the windows Desktop.
2. Click the icon to get into the “Network”, the GDS3705s will list as “Other Devices” shown like below. Refresh the pages if nothing displayed. Otherwise, the UPnP may not be active in the network.

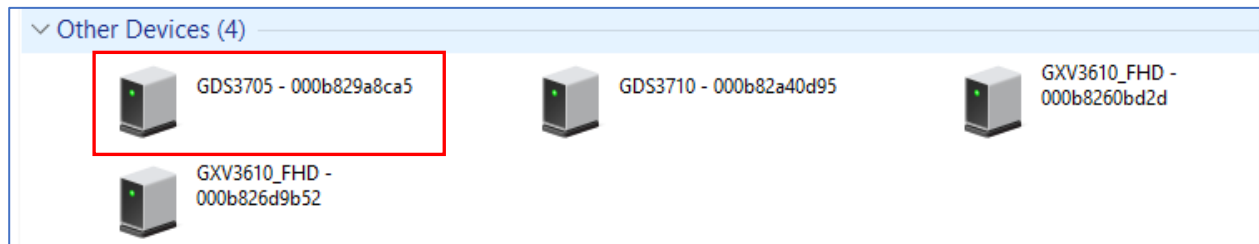


Figure 8: Detecting GDS3705 via UPnP

3. Click on the displayed icon of related GDS3705, the default browser (e.g.: Internet Explorer, Firefox or Chrome) will open and connect directly to the login webpage.

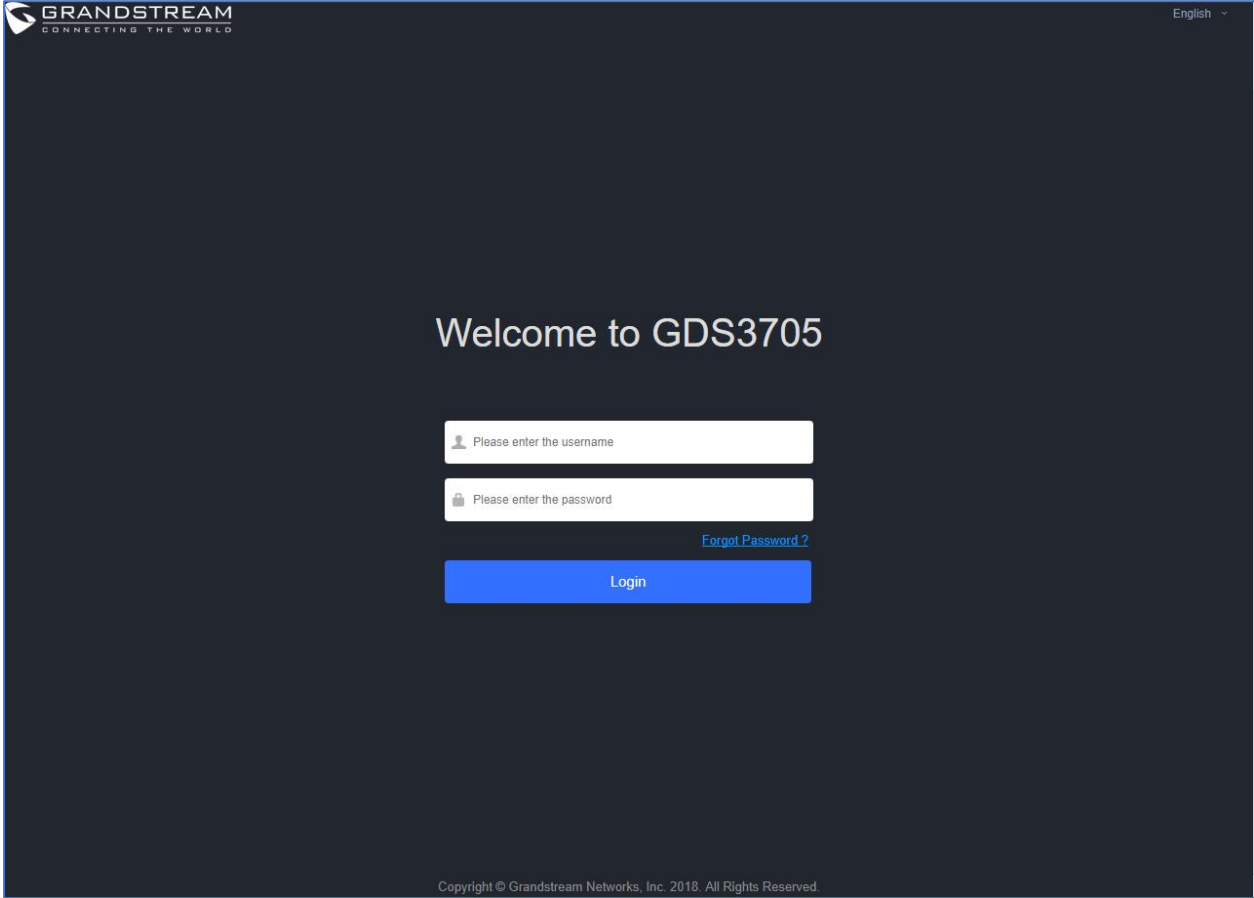
The screenshot shows the login interface for the GDS3705 device. At the top left is the Grandstream logo and tagline. At the top right is a language dropdown menu set to 'English'. The main heading is 'Welcome to GDS3705'. Below this are two input fields: the first is for the username with a user icon and the placeholder text 'Please enter the username'; the second is for the password with a lock icon and the placeholder text 'Please enter the password'. To the right of the password field is a blue link that says 'Forgot Password?'. Below the input fields is a blue 'Login' button. At the bottom of the page, there is a small copyright notice: 'Copyright © Grandstream Networks, Inc. 2018. All Rights Reserved.'

Figure 9: GDS3705 Login Page

GS Search

GS search is a program that is used to detect and capture the IP address of Grandstream devices. Below are instructions for using the “GS Search” utility tool:

1. Download the GS Search utility tool from Grandstream website using the following link:
http://www.grandstream.com/sites/default/files/Resources/GS_Search.zip
2. Double click on the downloaded file and the search window will appear.
3. Click on  button to start the discovery for Grandstream devices.
4. The detected devices will appear in the output field like below.

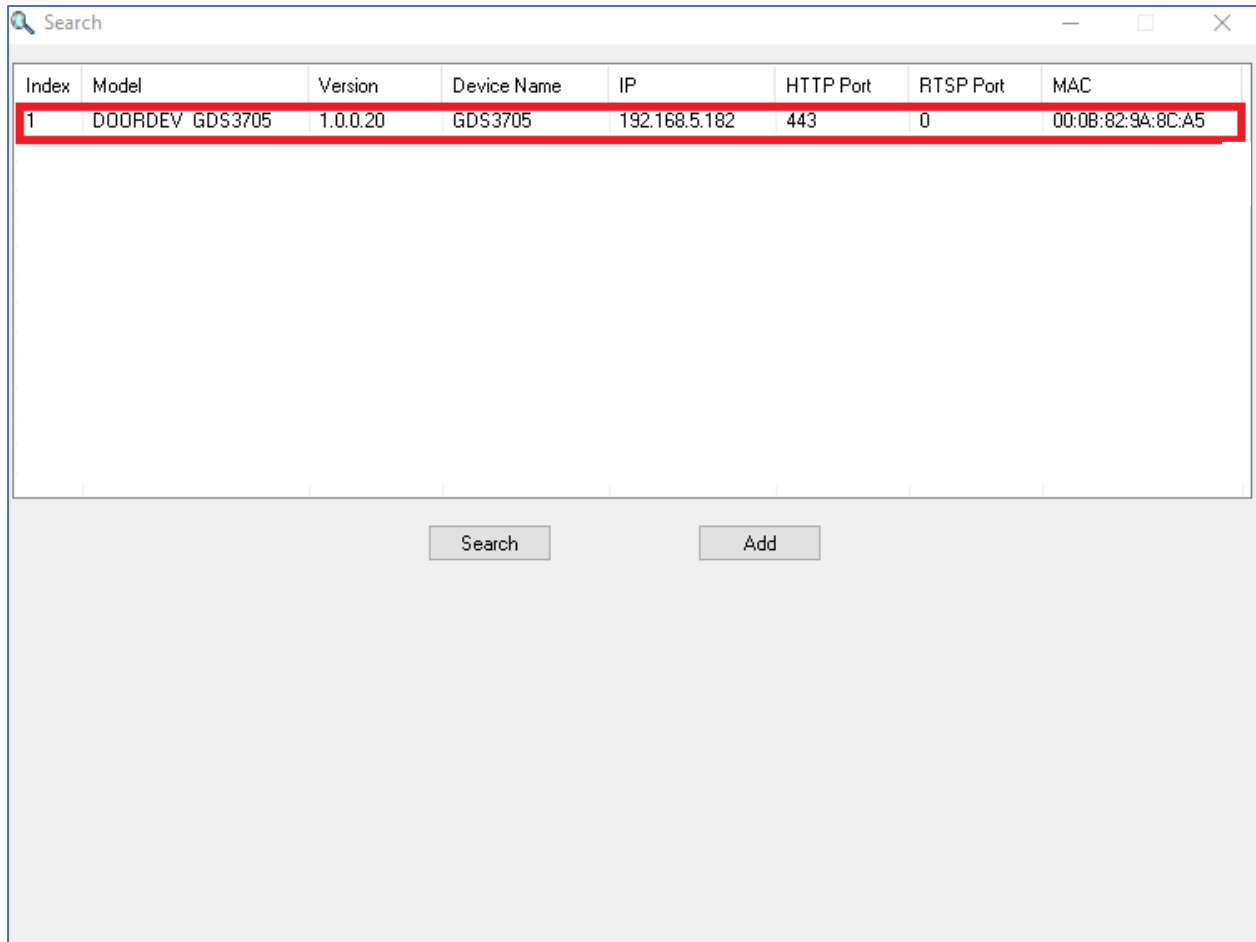


Figure 10: GS Search Discovery

5. Double click on a device to access its webGUI.

GDS Manager Utility Tool

User can know the IP address assigned to the GDS3705 from DHCP server log or using the Grandstream GDS Manager after installing this free utility tool provided by Grandstream. User can find instructions below, for using "GDS Manager" utility tool:

1. Download the GDS Manager utility tool from Grandstream website using the following link:
<http://www.grandstream.com/sites/default/files/Resources/gdsmanager.zip>
2. Install and run the Grandstream GDS Manager, a client/server architecture application, the server should be running first, then GDSManager (client) later:



- On the GDS Manager access to **Device** → **Search** and Click on the  **Search** button to start device detection
- The detected devices will appear in the output field like below:

Function Navigation		☒ Search by server Search + Add						
- Basic Information - Administrator - Group - Member - Schedule - Holiday	☐ Index ☒ 1 ☐ 2	Model GDS3710 GDS3705	Version 1.0.3.13 1.0.0.20	Device Name GDS3710 GDS3705	IP 192.168.5.13 192.168.5.182	Web Port 443 443	RTSP Port 554 554	Mac 00:0B:82:A4:0D:95 00:0B:82:9A:8C:A5

Figure 11: GDS3705 Detection using GDS Manager

- Double click the column of the detected GDS3705, the browser will automatically open and show the device's web configuration page.
- Enter the administrator user name and password to access the Web Configuration Interface, the default admin username is **"admin"** and the default random password can be found at the sticker on the GDS3705.

Connect to the GDS3705 using Static IP

If there is no DHCP server in the network, or the GDS3705 does not get IP from DHCP server, user can connect the GDS3705 to a computer directly, using static IP to configure the GDS3705.

- The default IP, if no DHCP server, or DHCP request times out (after 3 minutes), is **192.168.1.168**
- Connect the Ethernet cable from GDS3705 to the computer network port directly.
- Configure the computer using Static IP: 192.168.1.XXX (1<XXX<255, except for 168) and configure the "Subnet mask" to "255.255.255.0". Leave the "Default Gateway" to "Blank" like below:



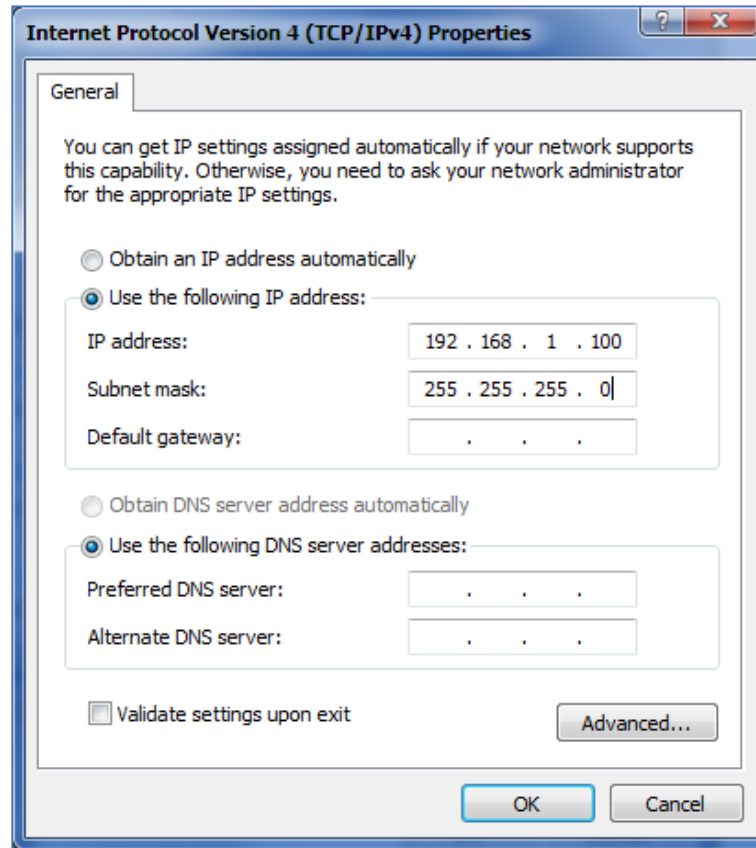


Figure 12: Static IP on Windows

4. Power on the GDS3705, using PoE injector or external DC power.
5. Enter 192.168.1.168 in the address bar of the browser, log in to the device with admin credentials. the default admin username is "**admin**" and the default random password can be found at the sticker on the GDS3705.

GDS3705 APPLICATION SCENARIOS

The GDS3705 Door System can be used in different scenarios.

Peering Mode without SIP Server

For environment like remote warehouse/storage, grocery store, small (take-out) restaurants, just using static IP with PoE switch to form a LAN, using Grandstream's audio phone GXP21XX/17XX/16XX series, the GDS3705 will meet your very basic intercom, and open-door requirements.

This is the solution to upgrade the traditional analogue Intercom system. All you need is a Power source, Switch or PoE Switch and Grandstream GXP21XX/17XX/16XX audio phones.

The equipment list can be found below:

- GDS3705
- GXP21XX/17XX/16XX
- PoE Switch with related Cat5e/Cat6 wiring

Peering using SIP Server (UCM6XXX)

For large deployment, multiple GDS3705 units might be required, peered connection will not work in such case due to multiple connections. Such scenarios require an IPPBX or a SIP Proxy to accomplish the tasks.

If remote access is required, a router with internet access should be added to below needed equipment list:

- Several GDS3705
- UCM6XXX or another SIP Server
- GXP21XX/17XX/16XX audio Phones
- PoE Switch with related Cat5e/Cat6 wiring
- Electronic Lock



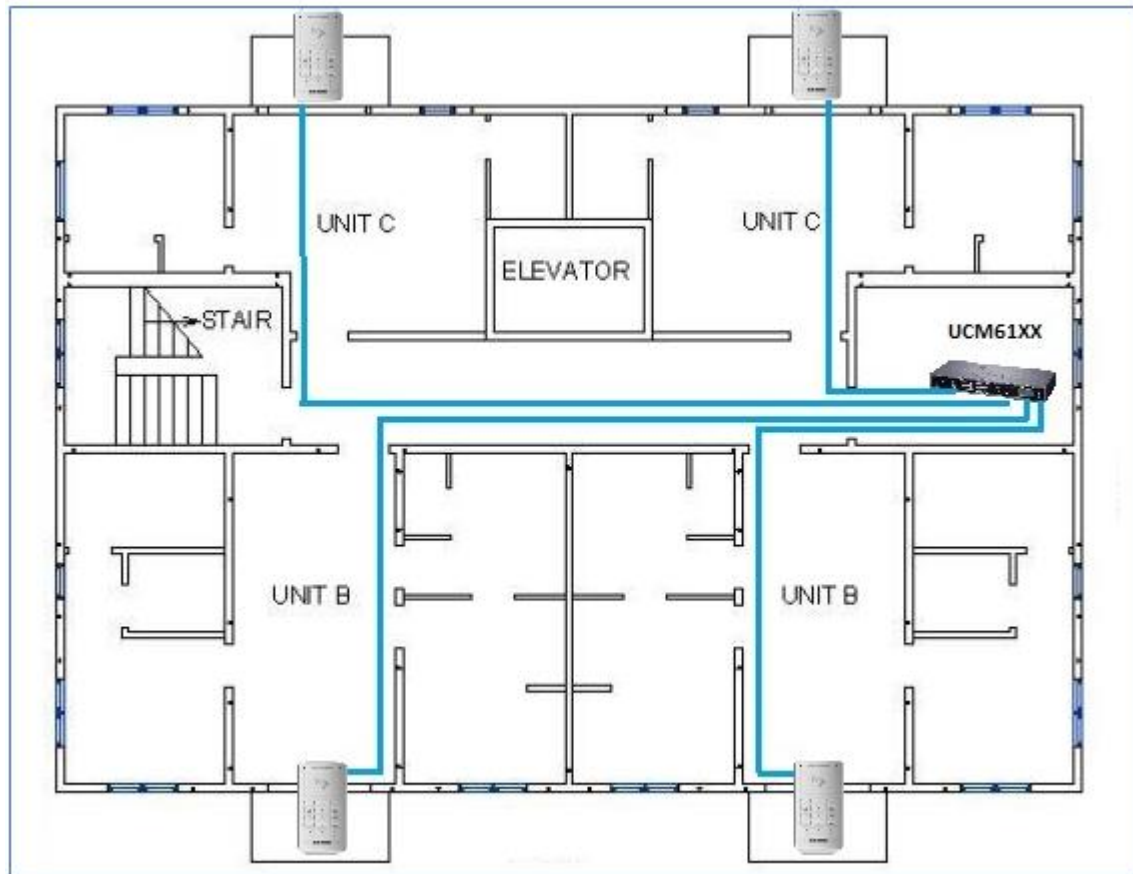


Figure 13: Peering GDS3705 with UCM6XXX

GDS3705 PERIPHERAL CONNECTIONS

Below is the illustration of GDS3705 peripheral connections for related applications.



Figure 14: Peripheral Connections for GDS3705

Alarm IN/OUT

Alarm_In could use any 3rd party Sensors (like IR Motion Sensor).

Alarm_Out device could use 3rd party Siren, Strobe Light, or Electric Door Striker, etc.

The figure below shows illustration of the Circuit for Alarm_In and Alarm_Out.

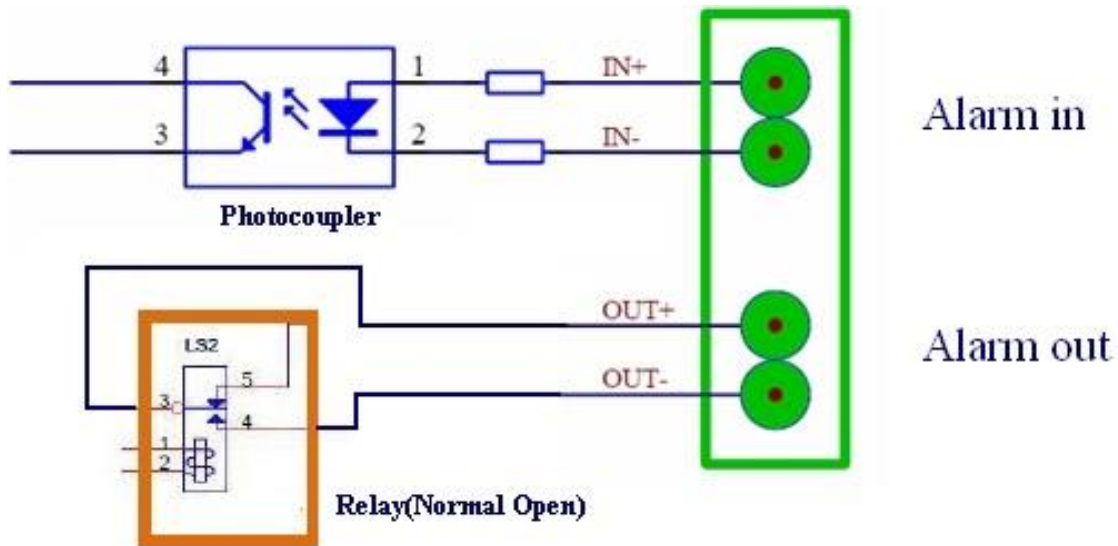


Figure 15: Alarm_In/Out Circuit for GDS3705

Notes:

- The Alarm_In and Alarm_Out circuit for the GDS3705 should meet the following requirement:

Alarm Input	3V<V _{in} <15V, PINs (1.02KΩ)
Alarm Output	125VAC/0.5A, 30VDC/2A, Normal Open, PINs

- The Alarm_In circuit, if there is any voltage change between 3V and 15V, as specified in the table above, the GDS3705 Alarm_In port will detect it and trigger the action and event.
- Higher voltage and wrong polarity connection are prohibited because this will damage the devices.

Protection Diode

When connecting the GDS3705 to a door strike it is recommended to set an EMF protection diode in reverse polarity for a secure use, below examples of deployment for the protection diode.

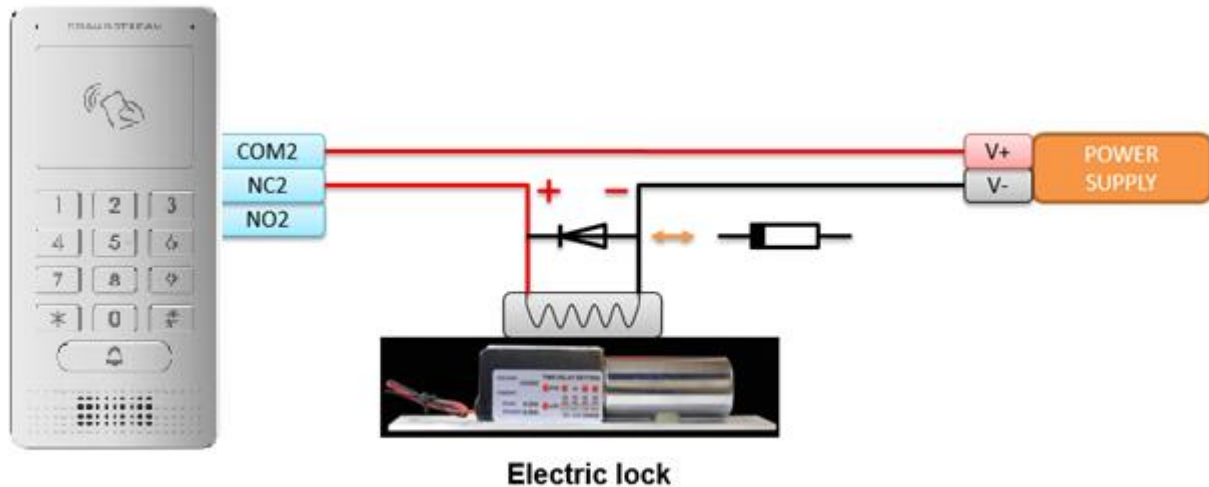


Figure 16: Protection Diode - Example 1

The reverse EMF protection diode must always be installed in reverse polarity across the door strike.

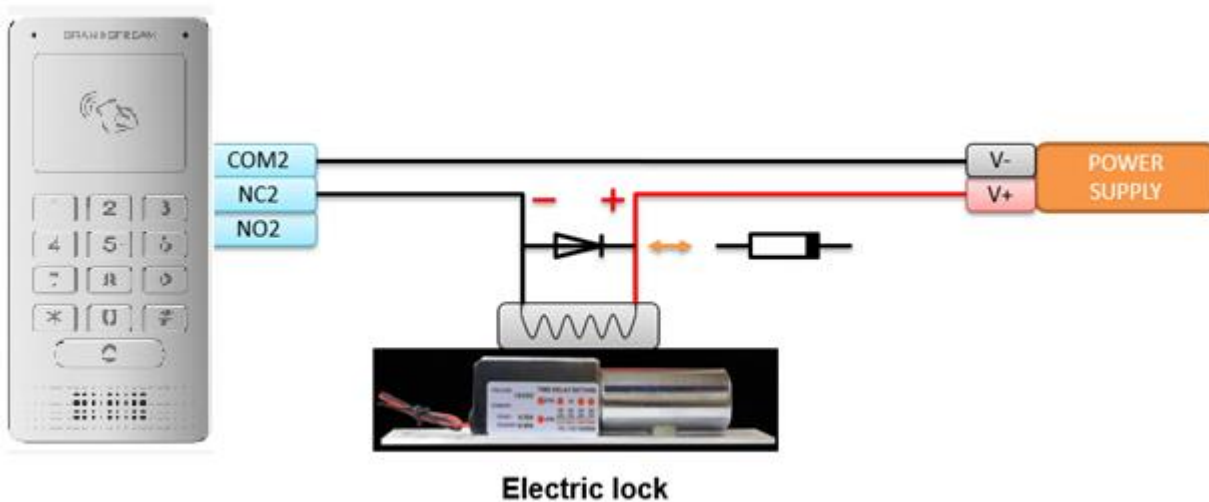


Figure 17: Protection Diode - Example 2

Connection Examples

Below examples, show how to use wiring on the back cover of the GDS3705 to connect with external devices. The “NO” (Normal Open) model strike is used as example, “NC” (Normal Closed) should be similar and users need to decide which model (NO or NC) to be used on the door.

Wiring Sample using 3rd Party Power Supply

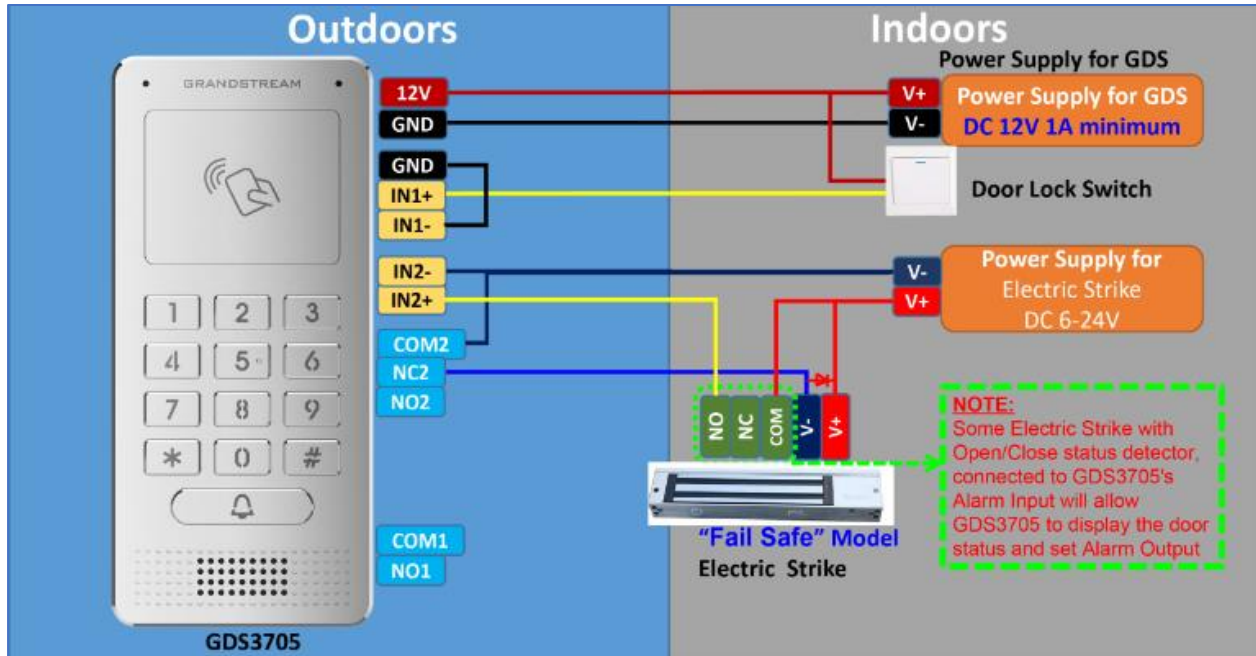


Figure 18: 3rd party Power Supply Wiring Sample

Wiring Sample using Power Supply for both GDS3705 and Electric Strike

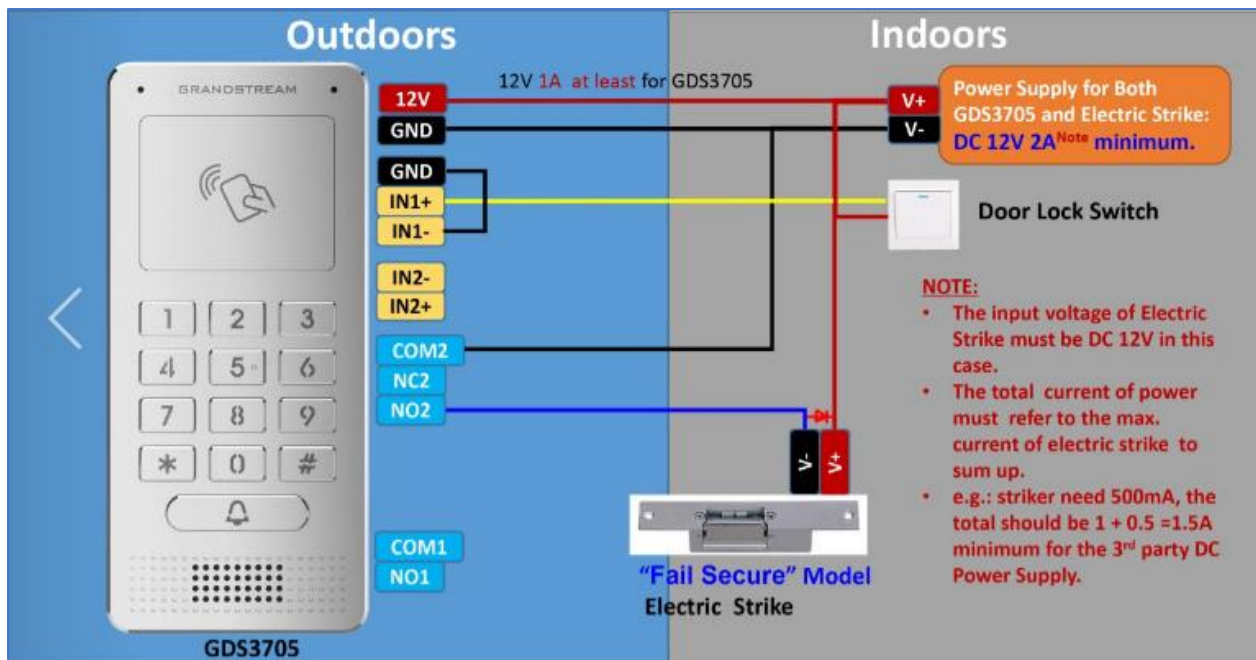


Figure 19: Power Supply used for both GDS3705 and Electric Strike

Wiring Sample using PoE to power GDS3705 and 3rd Party Power Supply for Electric Strike

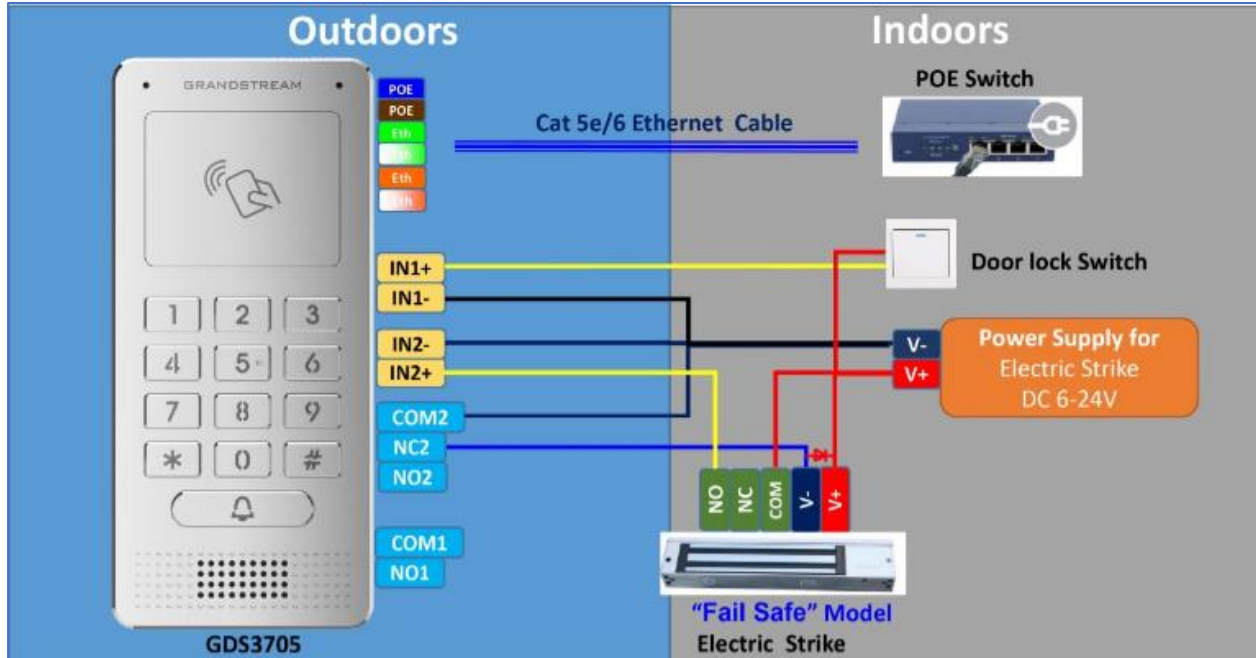


Figure 20: Wiring Sample using PoE to power GDS3705 and 3rd party Power Supply for Electric Strike

Warning: The following example should be avoided when powering the electric strike.

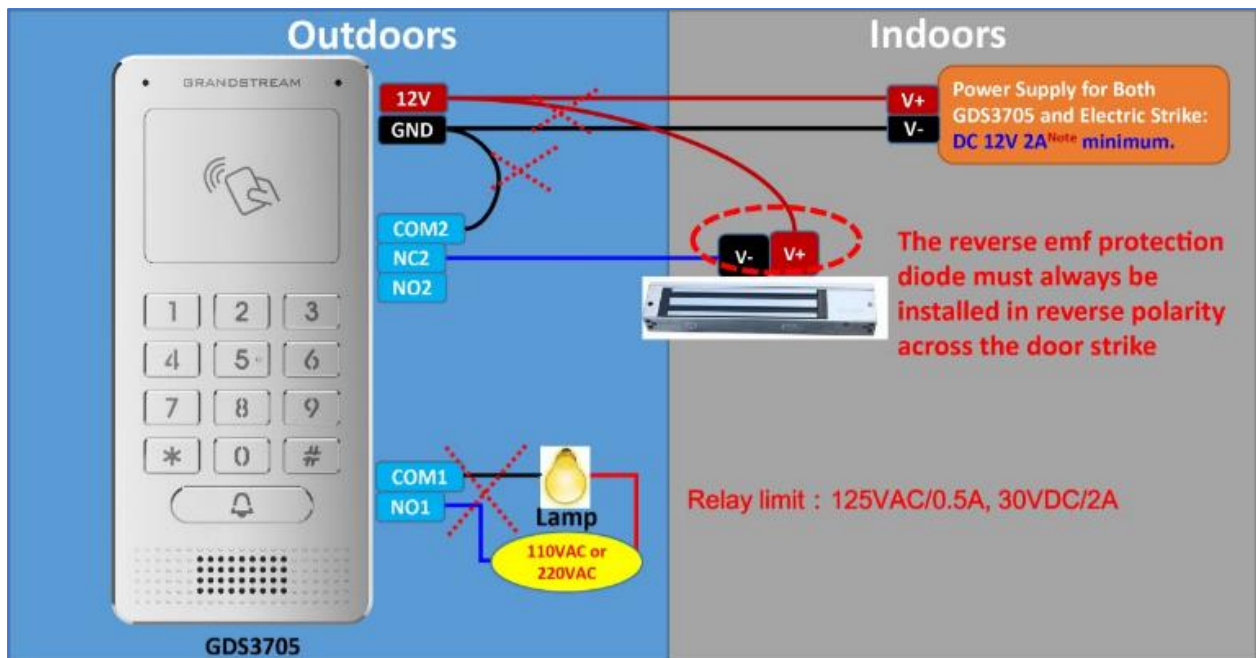


Figure 21: Example to Avoid when Powering the Electric Strike

Good Wiring Sample for Electric Strike and High-Power Device

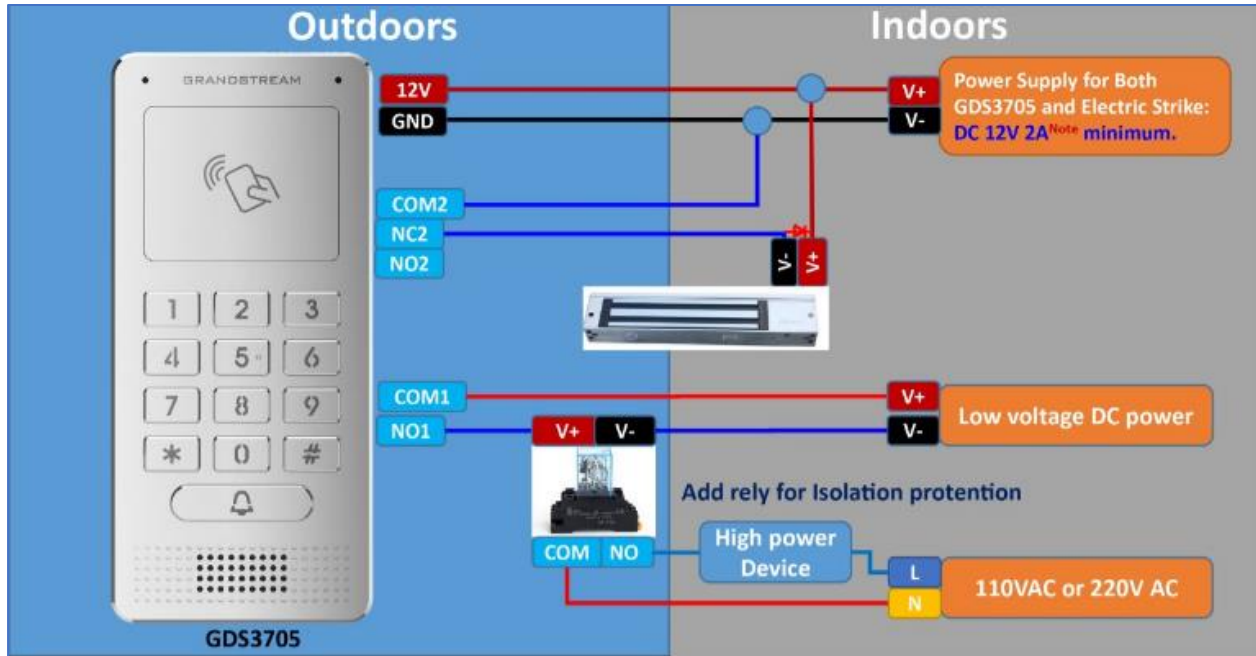


Figure 22: Electric Strike and High-Power Device Example

Wiegand Module Wiring Examples

GDS3705 package is shipped with one Wiegand cable for Input/Output Wiegand connections. The following examples shows how to connect the Wiegand Input/Output devices to the GDS3705.

Input example with 3rd party power supply for Wiegand device

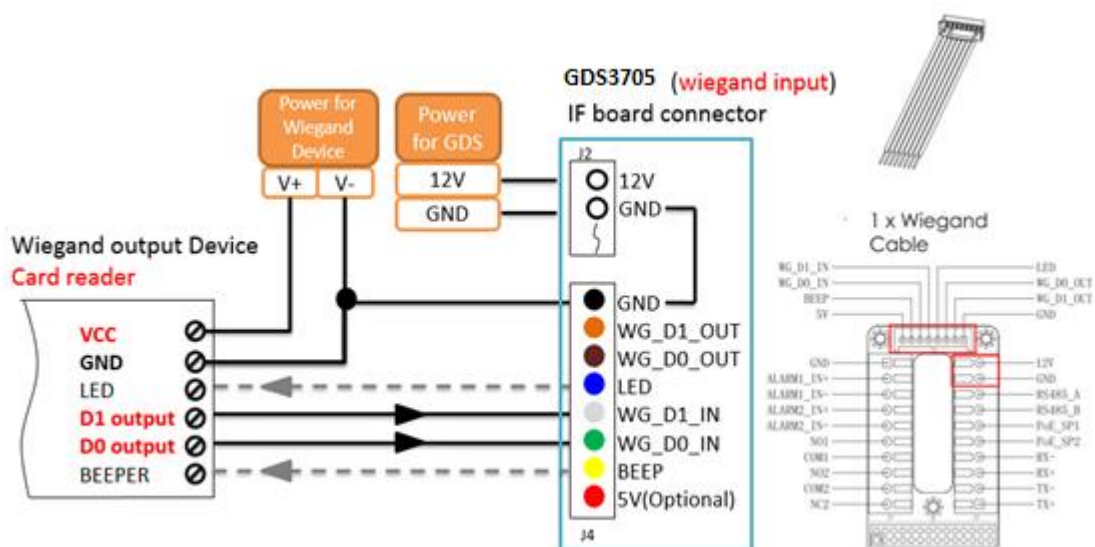


Figure 23: Wiegand Input Example with 3rd party Power Supply

Make sure to connect the GND of the Wiegand device and the GDS3705 Wiegand port.
 For Wiegand input mode, LED and Beep pins require that the Wiegand device support those interfaces.
 These two pins will not affect the Wiegand bus when not connected.

Input example with power supply for both GDS3705 and Wiegand device

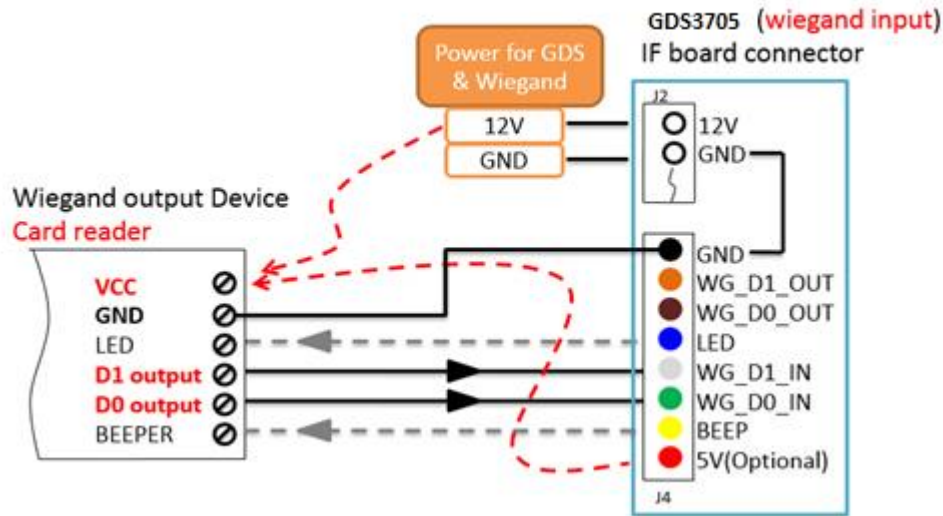


Figure 24: Wiegand Input Example with Power Supply for GDS3705 and Wiegand Device

If power source is **12VDC**, Wiegand device can share same power source of GDS3705. However, users need to check the max power consumption and the max capability of the power source.

If Wiegand device is using **5VDC**, GDS3705 Wiegand port can provide 5VDC with max 500mA to power up Wiegand device.

Output example with 3rd party power supply for Wiegand device

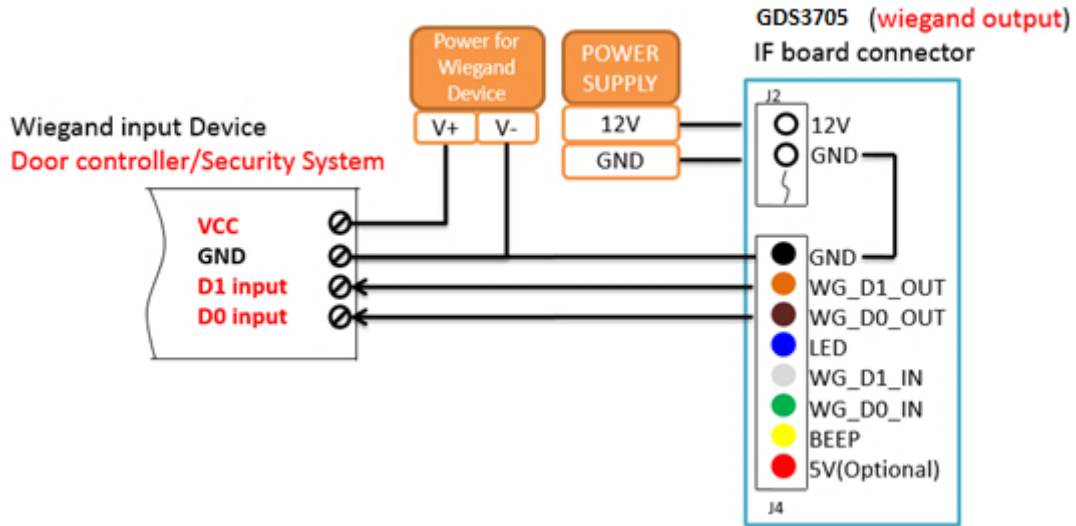


Figure 25: Wiegand Output Wiring Example

When the Wiegand output of the GDS3705 is connected, it acts as the signal receiver of the 3rd party Wiegand device, connecting to door controller. The major wiring is GND, D0, and D1. Because usually the door controller will consume big current and power, the power supply should be separated.

Wiegand RFID Card Reader Example

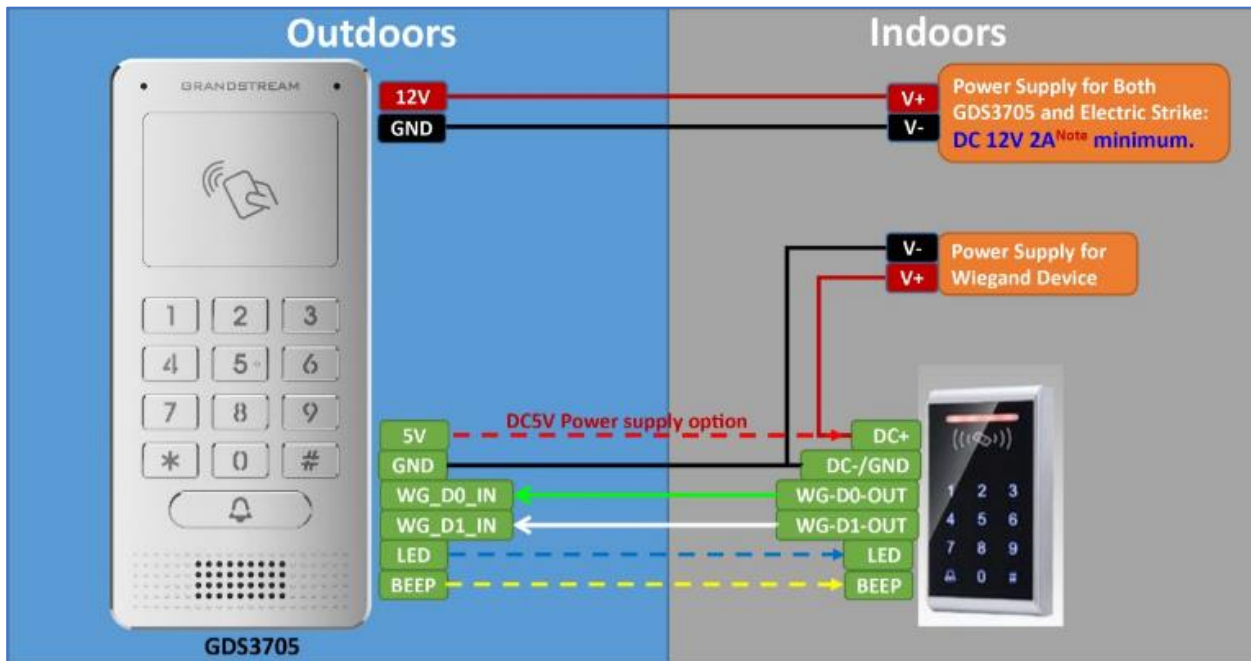


Figure 26: Wiegand RFID Card Reader Example

GDS3705 HOME WEB PAGE

- Once the IP address of the GDS3705 is entered on the user browser, the login web page will pop up allowing user to configure the GDS3705 parameters.
- When clicking on the “Language” drop down, supported languages will be displayed as shown in Figure below. Click to select the related webpage display language.

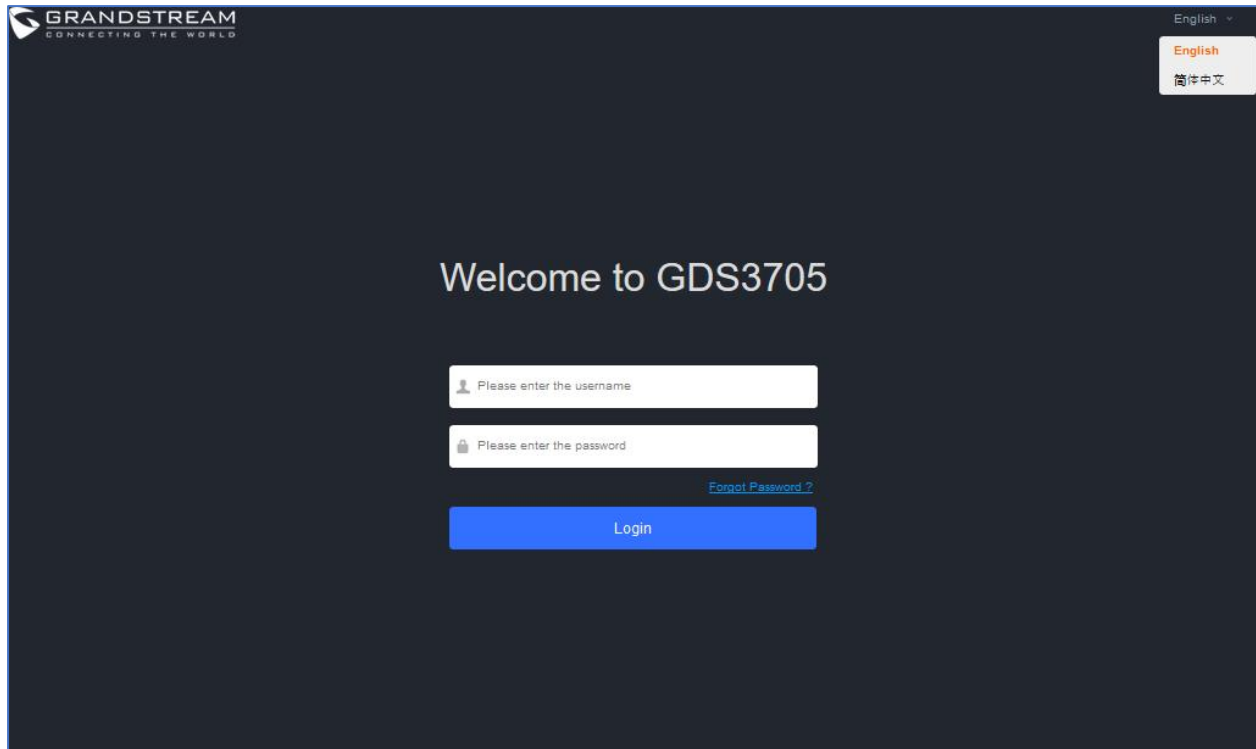


Figure 27: Change Language Page

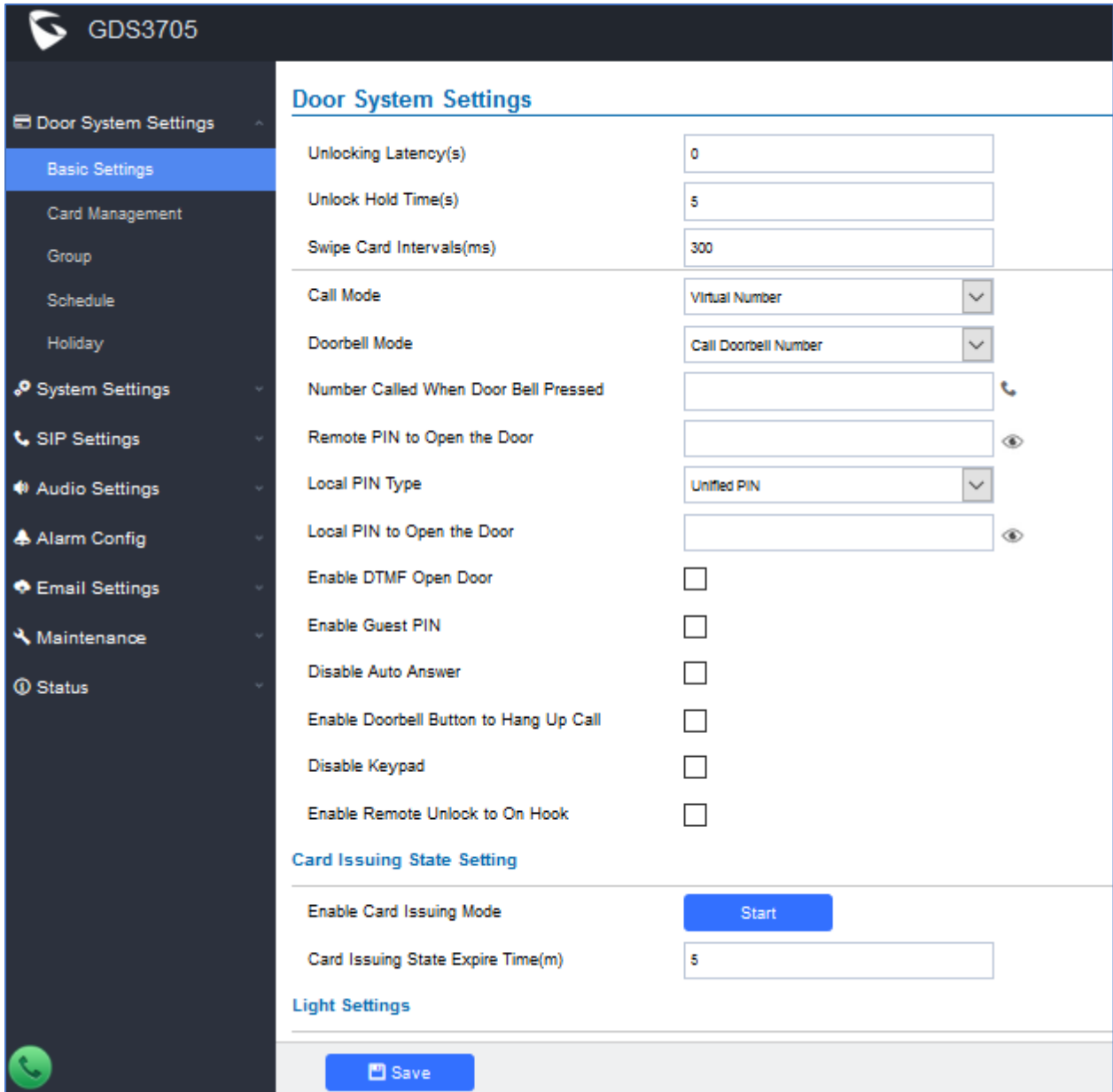
Note: Current firmware supports only English (default) and simplified Chinese.

GDS3705 SETTINGS

Door System Settings

Users can configure system operations parameters, like input PIN for the door and manage users' settings.

Basic Settings




GDS3705

Door System Settings

Basic Settings

Card Management

Group

Schedule

Holiday

System Settings

SIP Settings

Audio Settings

Alarm Config

Email Settings

Maintenance

Status

Door System Settings

Unlocking Latency(s)

0

Unlock Hold Time(s)

5

Swipe Card Intervals(ms)

300

Call Mode

Virtual Number

Doorbell Mode

Call Doorbell Number

Number Called When Door Bell Pressed

Remote PIN to Open the Door

Local PIN Type

Unified PIN

Local PIN to Open the Door

Enable DTMF Open Door

☐

Enable Guest PIN

☐

Disable Auto Answer

☐

Enable Doorbell Button to Hang Up Call

☐

Disable Keypad

☐

Enable Remote Unlock to On Hook

☐

Card Issuing State Setting

Enable Card Issuing Mode

Start

Card Issuing State Expire Time(m)

5

Light Settings

Save

Figure 28: Door System Settings Page

Table 5: Door System Settings

Unlocking Latency(s)	Configures the time delay in second for the electronic lock to be triggered (default value is 0 seconds).
Unlock Hold Time(s)	Configures the lock holding time, in seconds (default value is 5 seconds).
Swipe Card Intervals(ms)	Defines the interval in ms to swipe consecutive RFID cards. The range should be between 0ms and 2000ms.
Call Mode	Chooses whether to make call to the SIP number or Virtual Number when dialing from the GDS3705 keypad.
Doorbell Mode	Configures 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.
Number Called When Door Bell Pressed	Configures SIP extension number (SIP Server mode), or IP address with port number (peering mode), to be called when the Door Bell is pressed: • SIP Server mode: - The field can be configured to store multiple one or multiple SIP extensions, if configured with multiple extensions (ex: 1001, 1002, 1003), separated with “,” the GDS3705 will ring one extension after the other in a serial mode (GDS will ring each extension by default 15 seconds, this can be changed on the Ring Timeout). - When using UCM, users can also configure there a Ring Group extension (6400 for example) that will ring multiple extensions simultaneously, or one by one depending on the Ring Group ring strategy. - If early medial is enabled on phone side, user can send the PIN code using the Open-Door button before answering the call (Of course users can open the door also after answering the call). When using Parallel Mode via (Ring Group) this will not be possible since media (for DTMF) won't be included during the ringing which is required for door opening. • Peering mode: - User should configure multiple IP addresses of phones instead of SIP extensions, when Door Bell pressed the GDS3705 will ring the configured IP Addresses in Serial mode. Note: This field supports a Maximum of 256 characters.



Remote PIN to Open the Door	Configures PIN code stored in the GDS3705, remote SIP phone needs to input and match this PIN (the PIN is sent via DTMF while in call) so that the GDS3705 can open the door.
Local PIN Type	Three Options are available: Private Card PIN, Unified PIN or Card and Private PIN. • Private Card PIN: Means every member has a private PIN, the GDS will record who unlocked the door every time. Users need to enter the following sequence from the GDS3705 to open the door [*Virtual Number*Private Door Password#]. Note: When Local PIN type is set to private card PIN, users can also open the door by swiping their cards. • Unified PIN: Means all members share a same PIN to unlock the door. Users need to enter the following sequence from the GDS3705 keypad to open the door [*Local PIN to Open the Door#]. • Card and Private PIN: Means every member needs to swipe his card and enter his private PIN to open the door using the following sequence [Swipe the card + *Local PIN to Open the Door#]
Local PIN to Open the Door	Configures PIN stored in GDS3705, input locally this PIN on the GDS3705 keypad will unlock the door. This feature needs Private Card PIN, means every member has a private PIN, the GDS will record who unlocked the door every time. Users need to enter the following sequence from the GDS3705 to open the door [*Virtual Number*Private Door Password#]. Note: When local PIN type is set to private card PIN, users can also open the door by swiping their cards.
Enable DTMF Open Door	When enabled, remote SIP phones can open the door while in call by entering the remote PIN code configured (the PIN code is sent via DTMF). Default settings is disabled.
Enable Guest PIN	Enables password entry for guests.
Guest PIN	Configures the password that will be used by guests.
Guest PIN Duration Start Time	Selects the start time when the Guest PIN start to take effect.
Guest PIN Duration End Time	Selects the end time when the Guest PIN will stop working.
Disable Auto Answer	If checked, GDS3705 will not answer incoming calls automatically, users can press any key to answer the call. Default setting in unchecked.
Disable Keypad	When checked the Keypad will be disabled, only Door Bell button can be pressed.
Enable Remote Unlock to On Hook	When checked calls will be disconnected automatically 5 seconds after the remote open door event.
Enable Doorbell Button to Hang UP Call	When checked the door bell will allow users to hang up the ongoing call.



Enable Card Issuing Mode	Enables RFID card issuing/program into the GDS3705. When selected sweeping an RFID card into the GDS3705 will add card information into. [Card Management]
Card issuing State Expire Time(m)	Card issuing mode will be automatically disabled when timer reached (The range of value is 1 – 1440, in minutes).
Enable Key Blue Light	When checked, the blue light will be activated when pressing the GDS3705 Keys.
Enable Blue Light	When enabled, Keypad LED will light based on the configured Start/End Time. For instance, this option can be used when GDS is deployed on dark environment, the GDS will be located easily using Keypad LED.
Central Mode	If enabled, Group/Schedule/Holiday can only be synchronized from the Central (GDS Manager), local configuration will not be allowed. If disabled, only local configuration from GDS3705 is allowed. Default setting is "Disabled".
Key Tone Type	Configures the key tones for the GDS3705. • Default: Beeps will be played when pressing the GDS3705 keys. • DTMF: Tones will be played when pressing the GDS3705 keys. • Mute: No sound will be played when pressing keys.
Wiegand Input Enable	Enable Wiegand Input.
Wiegand Output Enable	Enable Wiegand Output.

Notes: Remote SIP phone needs password (digits 0-9 only, ended with # key) matching the configuration on the web page to open the door (via DTMF).

GDS3705 support RFID for multiple users to open door, therefore every user has its own PIN. For environment with 100 users and more, it's difficult for the GDS3705 to manage all these users and a separate PC or Server should be involved for such kind of management and monitoring.

In environments with more than 100 users the GDS3705, another possibility would be to set one unified Local PIN for opening the door for all the users.

Card Management

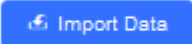
This page allows users to add information about RFID cards, two options are possible either add RFID cards manually or automatically.

Card Management											
Add User Reload Data Delete Data			Username* Q			Import Data		Export Data			
No.	Username*	Card Number*	Virtual Number*	Sip Number	Cellphone	ID Number	Gender	Group	Schedule	Valid Date	Edit
1	John	6456312	412	412	44103456897	6456312	Male	Disabled	Disabled	2099-12-31	Edit ☐
2	Anna	6324872	420	420	4412365891	6324872	Female	Disabled	Disabled	2099-12-31	Edit ☐

Figure 29: Card Management



Notes:

- The GDS3705 can add up to 2000 card user.
- Press  or  to import / export users' configuration file, information and data stored on the GDS3705.
- Use  to search for an entry on the Cards list.

Add Users Manually

To add users, click on , the following page will pop up.

 **Add Card Info**

Username*	
Private Door Password	
Gender	Male 
ID Number	
Card Number*	
Valid Date	2099-12-31 
Virtual Number*	
Sip Number	
Cellphone	
Group	Disabled 
Schedule	Disabled 
Enable	☐

Note: You can't open door by password if the password is no settled.

Figure 30: Card Info

Table 6: Card Info

Username	Configures the username to identify the user.
Private Door Password	Specifies a specific password to unlock the door.
Gender	Selects a gender, either Male or Female.



ID Number	Enters an ID number (This number is set by the admin to identify each user uniquely).
Card Number	Enters the RFID Card number (this is the number written on the RFID card. When “card issuing mode” is enabled, this field will be added automatically.
Valid Date	Configures the date of validity of the RFID card.
Virtual Number	When dialing directly from the keypad, the GDS accept only Virtual number to identify a user, once the Virtual number is typed followed by # key, the SIP Number will be dialed.
SIP Number	Configures the SIP Number which is mapped with virtual number. Once the virtual number is dialed the GDS3705 will send an INVITE to the SIP Number. Note: The SIP Number can be configured with an extension/phone number or IP address. Example: 192.168.5.124
Cellphone	Configures cellphone of the user.
Group	Specifies to which group the user will be added.
Schedule	Specifies the schedule that will be assigned to the user.
Enable	Enable/Disable the RFID card.

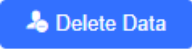
Notes:

- Group overrides Schedule.
- If Schedule is set as “Disabled” the RFID Card will be accepted when swiped.

Add Users Automatically

If *[Enable Card Issuing Mode]* is checked, the GDS3705 keypad will start blinking and once an RFID card is swiped, data stored on the card will be added into the GDS3705 card management page, user can still edit the entry added automatically by modifying some fields.

Users Operation

- Click on  to edit the entry or show details of the entry.
- Select the entries and click on  to delete the selected users.
- Click  to refresh the data entered to the GDS3705.
- Users can use Go to:      to navigate through User Management pages.



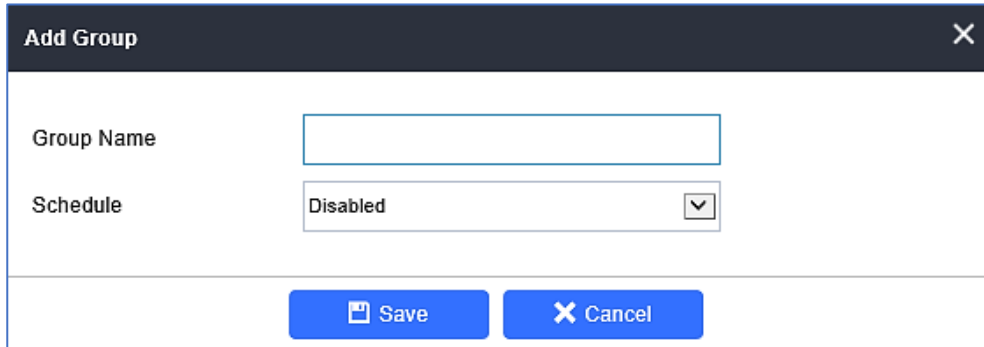
Group

The Group page permits to manage the groups which will contains multiple users, click on

 Add

to create new groups or  to edit existing groups or  to delete the group.

Note: Users can create up to 50 groups.



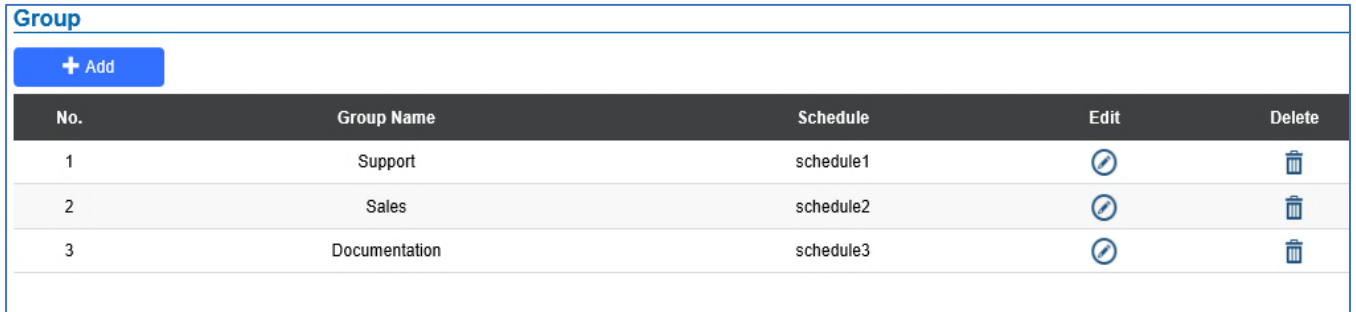
The 'Add Group' dialog box has a title bar with a close button. It contains two input fields: 'Group Name' with a text box and 'Schedule' with a dropdown menu currently showing 'Disabled'. At the bottom are 'Save' and 'Cancel' buttons.

Figure 31: Add Group

Table 7: Add Group

Group Name	Configures the name to identify the group.
Schedule	Specifies the schedule that will be used by the group.

The following screenshots display the list of the created groups.



The 'Groups List' table shows a list of groups with columns for No., Group Name, Schedule, Edit, and Delete. There are three groups listed: Support, Sales, and Documentation.

No.	Group Name	Schedule	Edit	Delete
1	Support	schedule1		
2	Sales	schedule2		
3	Documentation	schedule3		

Figure 32: Groups List

Schedule

The Schedule page allows to manage schedule time frames which will be assigned to the users for door system usage. Out of the configured time intervals, GDS3705 will not allow users to access.

Click on  to edit a schedule or  for schedule details.

Note: The GDS3705 supports up to 10 schedules.



Modify Schedule

✕

Schedule Name

Holiday Mode

Disabled

▼

Sun	Period1	08	:	00	--	17	:	00
Mon	Period2	00	:	00	--	00	:	00
Tue	Period3	00	:	00	--	00	:	00
Wed	Period4	00	:	00	--	00	:	00
Thu	Period5	00	:	00	--	00	:	00
Fri	Period6	00	:	00	--	00	:	00
Sat	Period7	00	:	00	--	00	:	00
Holiday	Period8	00	:	00	--	00	:	00

Copy

☒ Sun
 ☐ Mon
 ☐ Tue
 ☐ Wed
 ☐ Thu
 ☐ Fri
 ☐ Sat
 ☐ Holiday
 ☐ Select All

Save

Cancel

Figure 33: Edit Schedule Time

Holiday

The Holiday page allows to manage holidays which will be assigned to the users for door system usage.

Click on  to edit the holidays or  for holiday details.

Schedule Name

Duration1

-

+

◀◀

◀

Sep

2017

▶

▶▶

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Today

OK

Save

Cancel

Figure 34: Edit Holiday Time



System Settings

This page allows users to configure date and time, network settings as well as access method to the GDS3705 and password for accessing the Web GUI.

Date & Time Settings

This page allows users to adjust system date and time of the GDS3705.

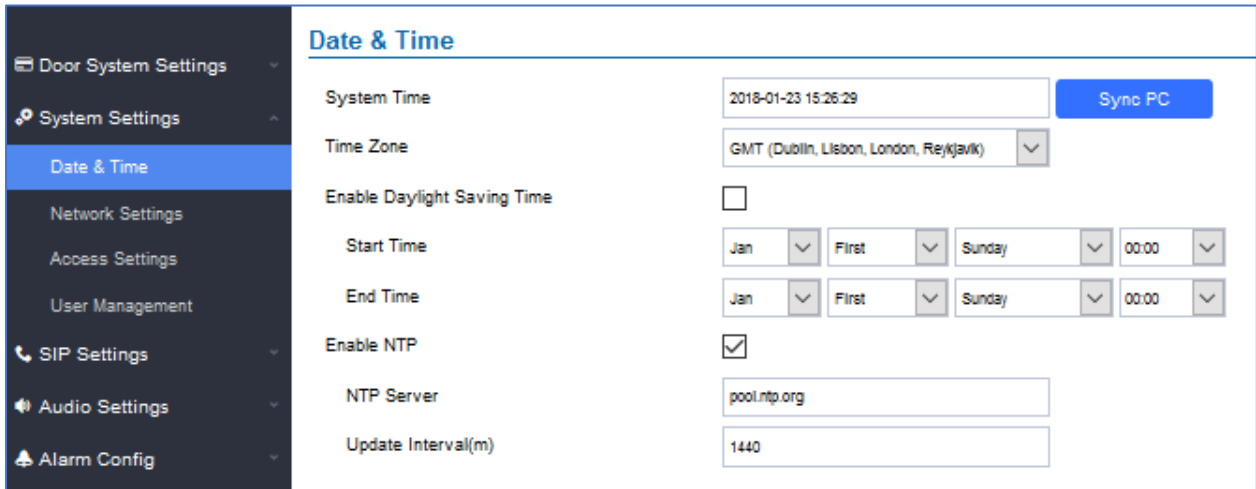


Figure 35: Date & Time Page

Table 8: Date & Time

System Time	Displays the current system time.
Sync PC	Clicks to synchronize current time with the computer.
Time Zone	Selects from drop down menu the preferred time zone.
Enable Daylight Saving Time	Enables Daylight Saving Time.
Start time	Selects the Start time of DST.
End Time	Selects DST end time.
Enable NTP	Enables NTP to synchronize device time.
NTP Server	Configures the domain name of NTP server.
Update Interval	Configures the Interval (in minutes) to retrieve updates from the NTP server.

Network Settings

This page allows users to set either a static or DHCP IP address to access the GDS3705.



Door System Settings

System Settings

Date & Time

Network Settings

Access Settings

User Management

SIP Settings

Audio Settings

Alarm Config

Email Settings

Maintenance

Status

Basic Settings

IP Address config

IP Address Mode ☒ DHCP ☐ Static IP

IP Address

Subnet Mask

Gateway

DNS Config

DNS Address Type ☒ Dynamic DNS ☐ Static DNS

DNS Server 1

DNS Server 2

Enable LLDP

Enable LLDP ☐ Disable ☒ Enable

Layer 2 QoS Settings

Enable VLAN ☒ Disable ☐ Enable

Layer 2 QoS 802.1Q/VLAN Tag

Layer 2 QoS 802.1p Priority Value for SIP signaling

Layer 2 QoS 802.1p Priority Value for RTP media

Figure 36: Basic Settings Page

Table 9: Basic Settings

IP Address Mode	Selects DHCP or Static IP. Default DHCP. (Static recommended)
IP Address	Configures the Static IP of the GDS3705.
Subnet Mask	Configures the Associated Subnet Mask.
Gateway	Configures the Gateway IP address.
DNS Address Type	Specifies the DNS type used: Dynamic DNS or Static DNS.
DNS Server 1	Configures DNS Server 1 IP address.
DNS Server 2	Configures DNS Server 2 IP address.
Enable LLDP	Controls the LLDP (Link Layer Discovery Protocol) service. The default setting is "Enabled".
Layer 2 QoS 802.1Q/VLAN Tag	Assigns the VLAN Tag of the Layer 2 QoS packets. Default value is 0.
Layer 2 QoS 802.1p Priority Value for SIP signaling	Assigns the priority value of the Layer2 QoS packets for SIP signaling. Default value is 0.
Layer 2 QoS 802.1p Priority Value for RTP media	Assigns the priority value of the Layer2 QoS packets for RTP media. Default value is 0.

Notes:

- If the GDS3705 is behind SOHO (Small Office Home Office) router with port forwarding configured for remote access, static IP should be used to avoid IP address changes after router reboot.
- TCP port above 5000 is suggested to Port forward HTTP for remote access, due to some ISP would block port 80 for inbound traffic. For example, change the default HTTP port from 80 to 8088, to make sure the TCP port will not be blocked.

Access Settings

This page configures the GDS3705 access control parameters.

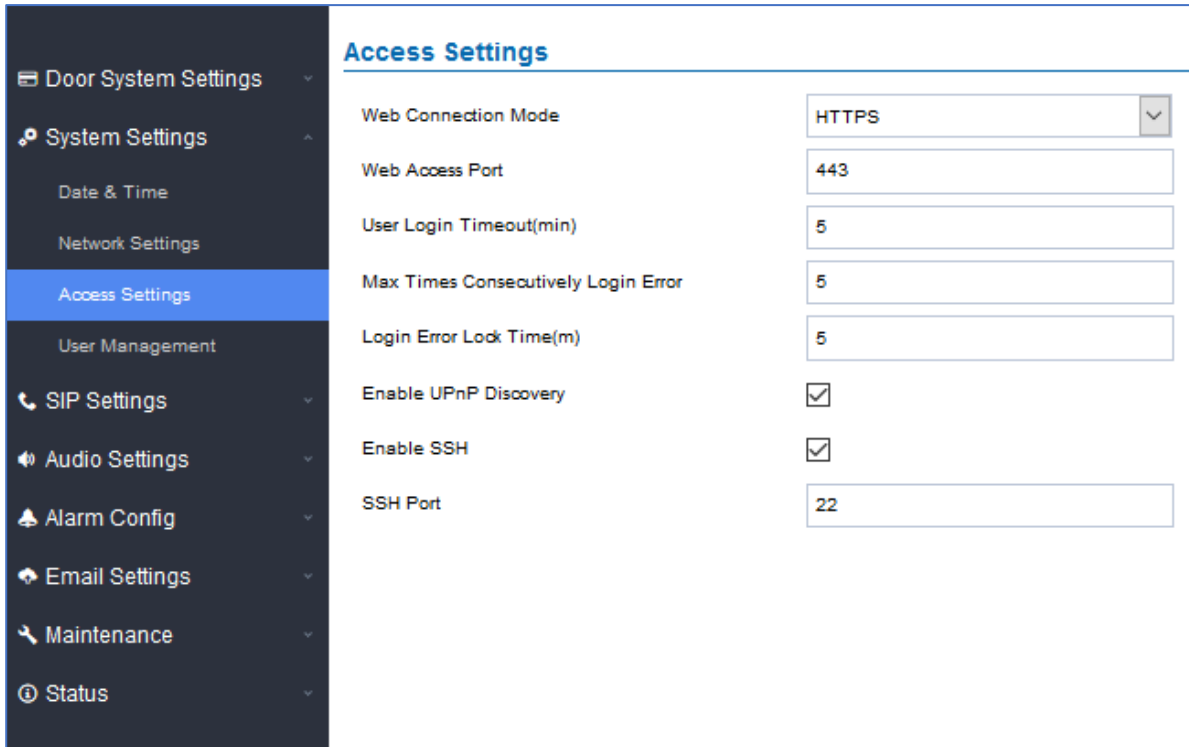


Figure 37: Access Settings Page

Table 10: Access Settings

Web Connection Mode	Selects the access mode to the webGUI either HTTP or HTTPS.
Web Access Port	Specifies the TCP port for Web Access, default 443.
User Login Timeout(min)	If no action is made within this time the GDS3705 will logout from the Web GUI, range is between 3 and 60.
Max Times Consecutively Login Error	Specifies the allowed login times error limit, if the unsuccessful login attempts exceed this value, the GDS3705 webGUI will be locked for the time specified in Login Error Lock Time.
Login Error Lock Time(m)	Specifies how long the GDS3705 is locked before a new login attempt is allowed.
Enable UPnP Discovery	UPnP (or mDNS) function for local discovery. Default setting is enabled.
Enable SSH	Selects to Enable/Disable SSH access. Default setting is enabled.
SSH Port	Specifies the SSH port. Default setting is 22.



User Management

This page allows users to configure the password for administrator. Since this is a door system which must be a secure product, the use is only limited to administrator.

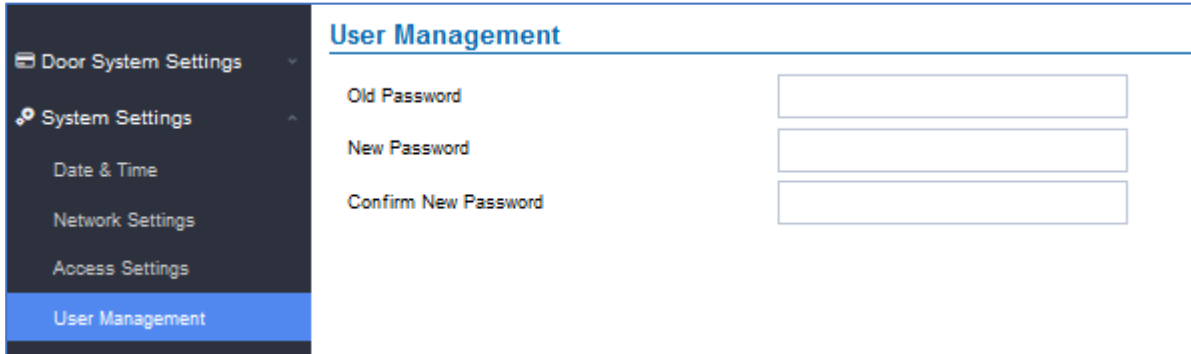


Figure 38: User Management Page

Table 11: User Management

Old Password	Old password must be entered to change new password.
New Password	Fill in the revised new password in this field.
Confirm User Password	Re-enter the new password for verification, must match.

Note:

When trying to change the password, users need to set the “**Password Recovery Email**” which is a valid Email account configurable under “**Email & FTP Settings → Email Settings**” to retrieve the email before the new admin password take effect as displayed on the following screenshot.

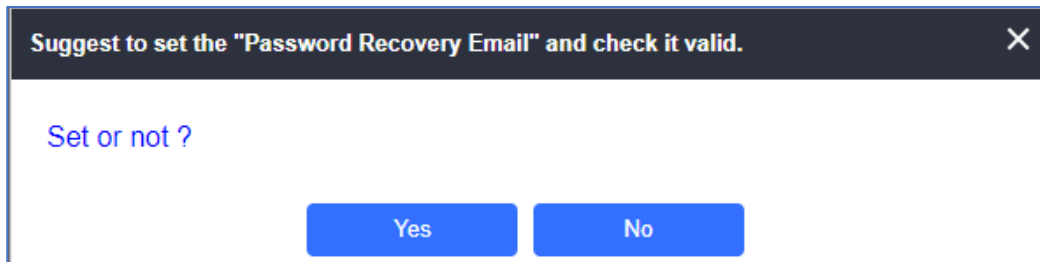


Figure 39: Password Recovery Email

SIP Settings

SIP Basic Settings

Basic Settings allow users to configure their SIP account.



- Door System Settings
- System Settings
- SIP Settings
 - SIP Basic Settings
 - SIP Advanced Settings
 - White List
- Audio Settings
- Alarm Config
- Email Settings
- Maintenance
- Status

SIP Basic Settings

SIP Registered

Offline

Account Name

SIP Server

Secondary SIP Server

Outbound Proxy

Backup Outbound Proxy

DNS Mode A Record

SIP User ID

Authenticate ID

Authenticate Password

TEL URI Disabled

Figure 40: SIP Basic Settings Page

Table 12: SIP Basic Settings

SIP Registered	Displays the SIP registration status. Display “Online” or “Offline”.
Account Name	Configures the SIP account name used for identification.
SIP Server	Configures the FQDN or IP of the SIP server from VoIP service provider or local IPPBX.
Secondary SIP Server	Configures the FQDN or IP of the Secondary SIP server from VoIP service provider or local IPPBX.
Outbound Proxy	Configures the IP or FQDN of Outbound proxy server.
Backup Outbound Proxy	Configure the IP or FQDN of Backup Outbound Proxy Server.
DNS Mode	Configure which DNS Mode will be used to translate the SIP Server FQDN (Default value is A Record): A Record. SRV. NAPTR/SRV.
SIP User ID	Configures the SIP username or telephone number from ITSP.
Authenticate ID	Configures the Authenticate ID used by SIP proxy.
TEL URI	Select “User=Phone” or “Enabled” from the dropdown list. If the SIP account has an assigned PSTN telephone number, this field should be set to “User=Phone”. Then a “User=Phone” parameter will be attached to the Request-Line and “TO” header in the SIP request to indicate the E.164 number. If set to “Enable”, “Tel:” will be used instead of “SIP:” in the SIP request. The default setting is “Disable”.
Authenticate Password	Sets the Authenticate password used by SIP proxy.



SIP Advanced Settings

This page allows Advanced SIP parameters to be configured.

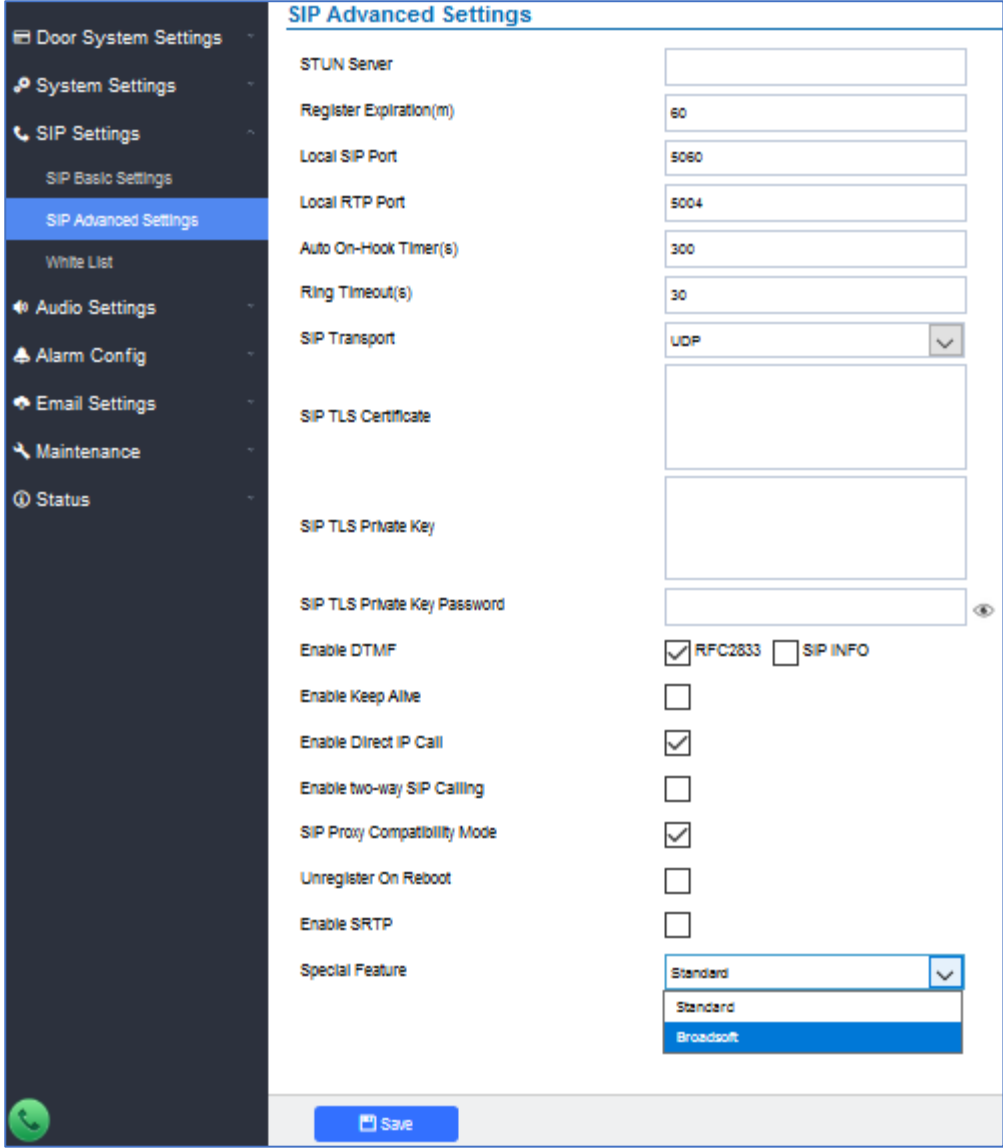


Figure 41: SIP Advanced Settings Page

Table 13: SIP Advanced Settings

STUN Server	Configures the STUN server FQDN or IP. If the device is behind a non-symmetric router, STUN server can help to penetrate & resolve NAT issues.
Register Expiration	Sets the registration expiration time. Default setting is 60 minutes.
Local SIP Port	Sets the local SIP port. Default setting is 5060.
Local RTP Port	Sets the local RTP port for media. Default setting is 5004.



Auto On-Hook Timer	Configures the auto on-hook timer (in seconds) for automatic disconnecting the SIP call. Default setting is 300.
Ring Timeout(s)	Specifies the Ring timeout, when no reply is returned from the called party after exceeding this filed, the GDS3705 will hang up the call. The value is in the range of 0s – 60s. By default; it is “15” seconds.
SIP Transport	Chooses the SIP transport protocol. Default settings is UDP.
SIP TLS Certificate	Copy/Paste the TLS certificate here for encryption.
SIP TLS Private Key	Input private key here for TLS security protection.
SIP TLS Private Key Password	Specifies the password for SIP TLS private Key.
Enable DTMF	Specifies the mechanism to transmit DTMF digits. There are 2 supported modes: • RFC2833 sends DTMF with RTP packet. Users can check the RTP packet to see the DTMFs sent as well as the number pressed. • SIP INFO uses SIP INFO to carry DTMF. Default setting is “RFC2833”
Enable Keep Alive	Checks to help NAT resolution, sending alive packets.
Enable Direct IP Call	Accepts peer-to-peer IP call (over UDP only) without SIP server. Default is “Enabled”.
Enable two-way SIP Calling	Allows the user to enable/disable the alarm sound during a SIP call triggered by doorbell pressing.
SIP Proxy Compatibility Mode	Enables more proxy compatibility with cost of bandwidth, the SIP call will send audio no matter what.
Unregister on Reboot	Allows the SIP user's registration information to be cleared when the GDS3705 reboots. The SIP REGISTER message will contain “Expires: 0” to unbind the connection
Enable SRTP	Enable SRTP mode. By default, it's disabled.
Special Feature	Configures GDS settings to meet different vendors' server requirements. Users can choose from Standard and Broadsoft. The default setting is “Standard”.

White List

This page allows users to configure the white list, which is a phone number or extension list that can call the GDS3705. (the call will be automatically answered when calling from a phone set on the white list).



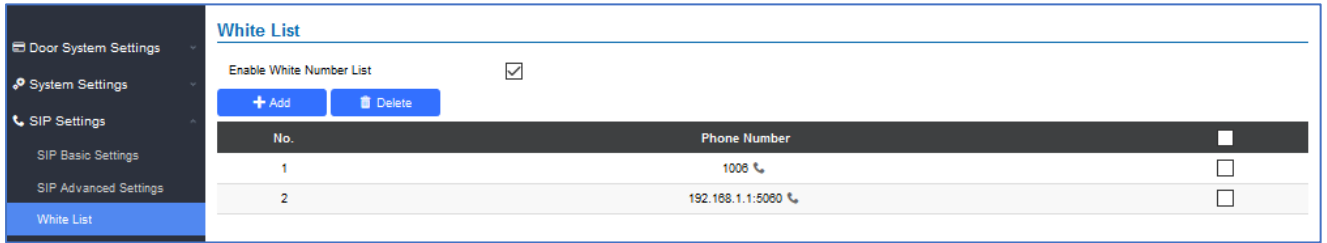


Figure 42: White List Page

The table below gives a brief overview of the options:

Table 14: White List

Enable White Number List	Enables the White List feature.
Add	Adds a new phone number to the white list.
Delete	Deletes a number from the white list.

Note: All whitelisted numbers can open door remotely using PIN Code when calling GDS.

Audio Settings

The audio settings allow users to configure the audio codecs and Volume related settings.

Audio Settings

This page allows users to configure the audio settings.

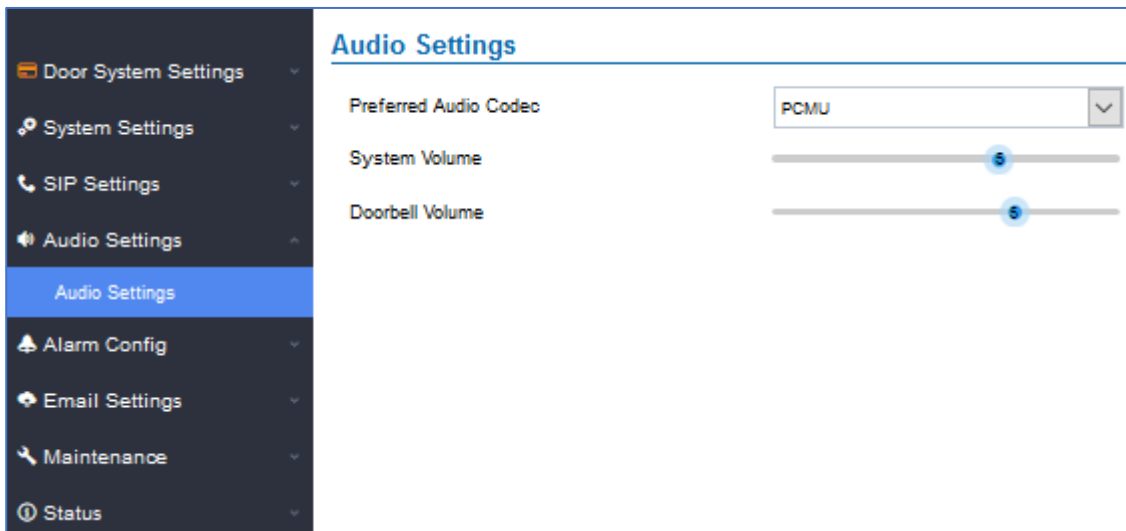


Figure 43: Audio Settings Page

Table 15: Audio Settings

Preferred Audio Codec	Configures the audio codec. Three codecs are available: PCMU, PCMA and G.722.
------------------------------	---

System Volume	Adjusts the speaker volume connected.
Doorbell Volume	Adjusts the doorbell volume.

Alarm Config

This page allows users to configure alarm schedule and alarm actions.

Alarm Events Config

This page allows users to configure GDS3705 events to trigger programmed actions within predefined schedule.

Door System Settings

System Settings

SIP Settings

Audio Settings

Alarm Config

Alarm Events Config

Alarm Schedule

Alarm Action

Alarm Phone List

Email Settings

Maintenance

Status

Alarm Events Config

Digital Input

Digital Input 1	Disable	
Select Alarm Schedule 1	All Day	Edit Schedules
Select Alarm Action Profile 1	profile1	Edit Profiles

Digital Input 2

Digital Input 2	Disable	
Select Alarm Schedule 2	All Day	Edit Schedules
Select Alarm Action Profile 2	profile1	Edit Profiles

Digital Output

Alarm Output Duration(s)	5	
--------------------------	---	--

Alarm Config

Enable Silently Alarm Mode	☐
Enable Hostage Code	☐
Enable Tamper Alarm	☐
Enable Keypad Input Error Alarm	☒
Select Alarm Action Profile	profile1 Edit Profiles

Save

Figure 44: Events Page

Alarm can be triggered by GDS3705 input.



Digital Input

Digital Input

Digital Input 1

Disable
 ▼

Select Alarm Schedule 1

All Day
 ▼

Select Alarm Action Profile 1

profile1
 ▼

Digital Input 2

Disable
 ▼

Select Alarm Schedule 2

All Day
 ▼

Select Alarm Action Profile 2

profile1
 ▼

Figure 45: Digital Input

Table 16: Digital Input

Digital Input 1	Selects the Input method (alarm Input or Door Open).
Select Alarm Schedule 1	Selects the predefined Alarm Schedule.
Select Alarm Action Profile 1	Selects the predefined Alarm Action for Profile 1.
Digital Input 2	Selects the Input method (alarm Input or Door Open).
Select Alarm Schedule 2	Selects the predefined Alarm Schedule.
Select Alarm Action Profile 2	Selects the predefined Alarm Action for Profile 2.

Alarm Output

Alarm Output Duration(s) specifies how long the alarm output will take effect. The available values are: 5,10,15,20,25 and 30 seconds.

Silently Alarm Mode

If Silently Alarm Mode is enabled, GDS3705 will disable alarm sound and background light for specified alarms types (Digital Input) when they are triggered.

Note: This option affects only alarm sound/light, other actions will still be applied.

Table 17: Silently Alarm Mode

Enable Silently Alarm Mode	Enable/Disable silent alarm mode.
Silently Alarm Options	When the silently alarm mode is enabled, users can specify to which alarm options the silently mode will be applied to. The available options are: Digital Input, Motion Detection, Tamper Alarm, and Password Error.



Hostage Code

Hostage password can be used in a critical situation for instance a kidnaping or an emergency, users need to enter the following sequence to trigger the actions set for the Hostage Mode: “* **HostagePassword #**”.

Table 18: Hostage Code Alarm

Enable Hostage Code	Enable/Disable the Hostage password mode.
Hostage Code	Configures the password for the hostage mode.
Select Alarm Action Profile	Select the Alarm action to be taken when the hostage password is typed on the GDS3705 keypad. Note: No sound alarm will be triggered in this mode.

Tamper Alarm

Tamper alarm is anti-hack from Hardware level. When this option is checked, if the GDS3705 is removed from the installation board, it will trigger configured alarm actions. There is an embedded mechanism on the GDS3705 that allows it to detect when the it is removed.

Table 19: Tamper Alarm

Enable Tamper Alarm	When activating this mode, GDS3705 will keep alarming until the alarm is dismissed.
Select alarm Action Profile	Select the type of alarms actions to be triggered for the tamper alarm mode.

Keypad Input Error Alarm

Table 20: Keypad Input Error Alarm

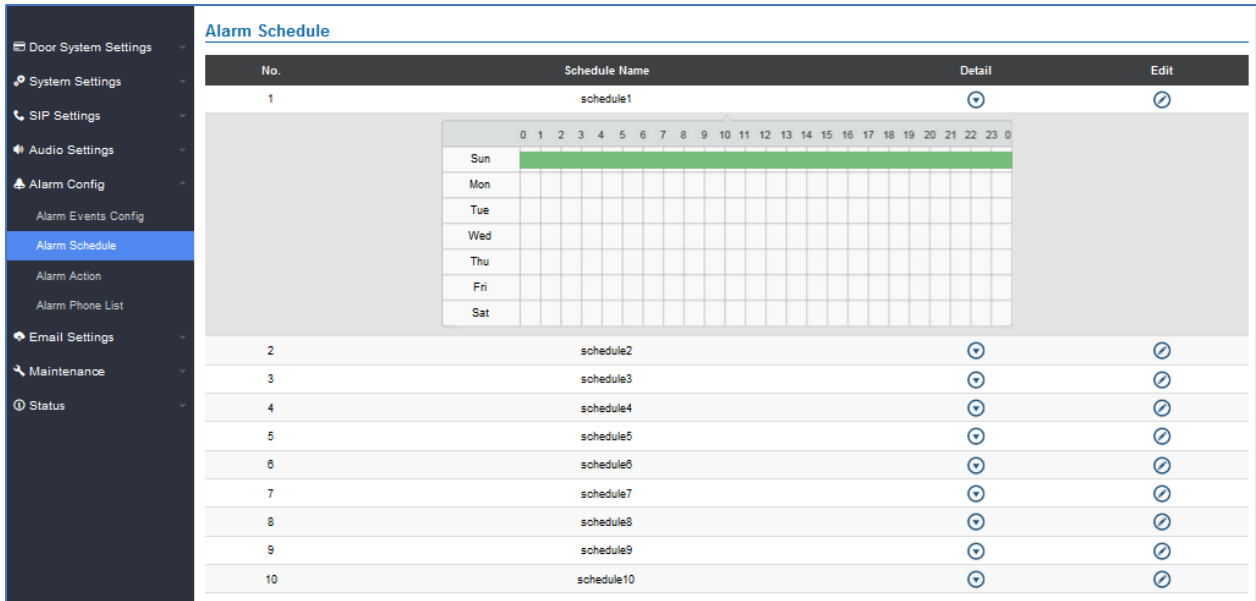
Enable Keypad Input Error Alarm	Enable/Disable the Input Error Alarm, GDS3705 will trigger alarm actions at every 5 incorrect attempts.
Select Alarm Profile	Select the type of alarms actions to be triggered after 5 incorrect attempts.



Alarm Schedule

This page specifies the configuration of Alarm Schedule.

Note: Schedule must be configured first to allow the alarm to take the related action.



No.	Schedule Name	Detail	Edit
1	schedule1		
Sun Mon Tue Wed Thu Fri Sat 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0			
2	schedule2		
3	schedule3		
4	schedule4		
5	schedule5		
6	schedule6		
7	schedule7		
8	schedule8		
9	schedule9		
10	schedule10		

Figure 46: Alarm Schedule

GDS3705 supports up to 10 alarm schedules to be configured, with time span specified by users. User can edit the alarm schedule by clicking  button. Usually the 24 hours' span is 00:00 ~ 23:59, which is 24 hours' format.

Users can copy the configuration to different date during the schedule programming.

Modify Schedule
✕

Schedule Name

Sun	Period1	00	:	00	-	23	:	59
Mon	Period2	00	:	00	-	00	:	00
Tue	Period3	00	:	00	-	00	:	00
Wed	Period4	00	:	00	-	00	:	00
Thu	Period5	00	:	00	-	00	:	00
Fri	Period6	00	:	00	-	00	:	00
Sat	Period7	00	:	00	-	00	:	00
	Period8	00	:	00	-	00	:	00

Copy
☒ Sun
☐ Mon
☐ Tue
☐ Wed
☐ Thu
☐ Fri
☐ Sat
☐ Select All

Save

Cancel

Figure 47: Edit Schedule

Alarm Action

This page specifies the configuration of Profile used by the Alarm Actions. A Profile is required before the Alarm Action can take effect.

Alarm Action			
No.	Alarm Action Profile Name	Detail	Edit
1	profile1	☒ Upload to Alarm Center ☒ Voice Alarm to SIP Phone ☒ Send Email ☒ Sound Alarm ☒ Alarm Output	
2	profile2		
3	profile3		
4	profile4		
5	profile5		
6	profile6		
7	profile7		
8	profile8		
9	profile9		
10	profile10		

Figure 48: Alarm Action

User can edit the alarm action by clicking  button, the following window will popup.

Modify Alarm Action Profile
 ✕

Alarm Action Profile Name

☒ Upload to Alarm Center
☒ Voice Alarm to SIP Phone
☒ Send Email

☒ Sound Alarm
☒ Alarm Output

Save

Cancel

Figure 49: Edit Alarm Action

Table 21: Alarm Actions

Upload to Alarm Center	If selected, the GDSManager will popup alarm window and sound alarm in the computer speaker.
Voice Alarm to SIP Phone	If selected, GDS3705 will call pre-configured phone and will play sound alarm.
Send Email	If selected, an email with snapshot will be sent to the pre-configured email destination.
Sound Alarm	If selected, GDS3705 will play alarm audio using built-in speaker.
Alarm Output	If selected, the alarm will be sent to the equipment (for example: Siren) connected to Alarm Output interface.

Alarm Phone List

This page allows users to configure the Alarm Phone List, which are phone numbers or extensions list that the GDS3705 will call out when event is triggered (e.g.: doorbell pressed).

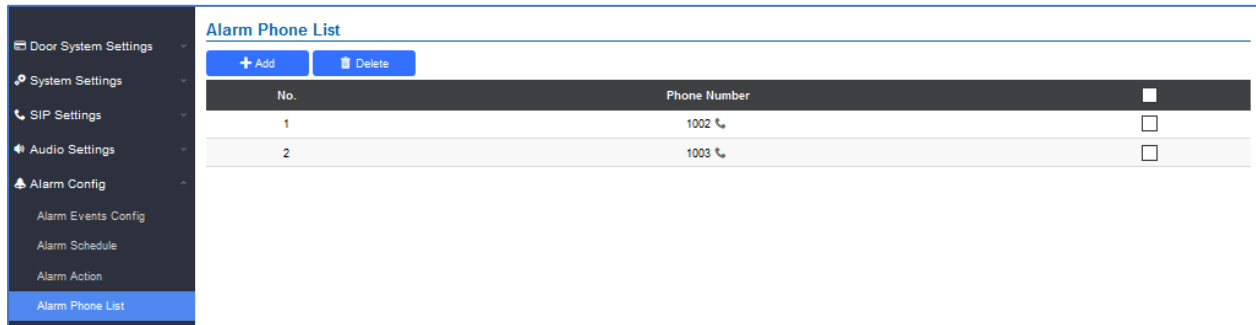


Figure 50: Alarm Phone List

Table 22: Alarm Phone List

Add	Adds new phone number to the alarm list.
Delete	Deletes a number from the phone alarm list.

Once the event is triggered (Motion Detection, Door Bell Pressed...), the GDS3705 will call the first number, once time out is reached and no answer is returned from the first number, the GDS3705 will try the next number on the list and so on. Once the remote phone answers the call, an alarm will be played to notify users that an event is triggered.

Email Settings

This page contains Email Settings.

Email Settings

This page allows users to configure email client to send out an email when the alarm is triggered.



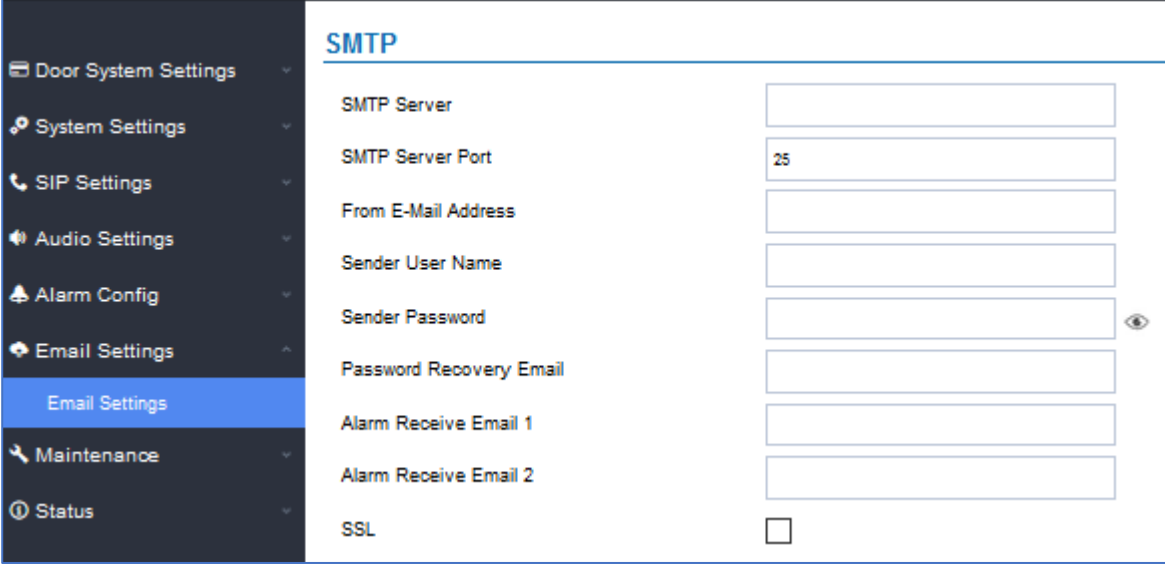


Figure 51: Email Settings - SMTP Page

Table 23: Email Settings - SMTP

SMTP Server	Configures the SMTP Email Server IP or Domain Name.
SMTP Server Port	Specifies the Port number used by server to send email.
From E-mail address	Specifies the email address of alarm email sending from, usually client email ID.
Sender User Name	Specifies sender's User ID or account ID in the email system used.
Sender Password	Specifies sender's password of the email account.
Password Recovery Email	Specifies Email address used when password forgot and reset required.
Alarm Receive Email 1	Specifies the 1 st email address to receive the alarm email.
Alarm Receive Email 2	Specifies the 2 nd email address to receive the alarm email.
SSL	Check if the SMTP email server requires SSL.

Notes:

- Click "Save" to save the email configuration information.
- Click "Email Test" after configuration, if settings are correct, a test email will send out and "E-mail test successfully" message on the top page will appear E-Mail test successfully.

Maintenance Settings

This page shows the GDS3705 Maintenance parameters.

Upgrade

This page contains the upgrade parameters of the GDS3705.



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Alarm Config

Email Settings

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Upgrade

Reboot & Reset

Debug Log

Data Maintenance

Status

Upgrade

Upgrade Via

HTTP

Firmware Server Path

fm.grandstream.com/gs

Config Server Path

fm.grandstream.com/gs

HTTP/HTTPS User Name

HTTP/HTTPS Password

Firmware File Prefix

Firmware File Postfix

Config File Prefix

Config File Postfix

XML Config File Password

Automatic Upgrade Interval(m)

10080

DHCP Option 66 Override Server

☒

Zero Config

☐

Automatic Upgrade

☒

Figure 52: Upgrade Page

Table 24: Upgrade

Upgrade Via	Selects the upgrade method (HTTP, HTTPS).
Firmware Server Path	Configures the IP address or the FQDN of the upgrade server.
Config Server Path	Configures the IP address or the FQDN of the configuration server.
HTTP/HTTPS User Name	User name if needed by remote provisioning HTTP/HTTPS server.
HTTP/HTTPS Password	Password to authenticate with remote provisioning HTTP/HTTPS server.
Firmware File Prefix	Prefix that will be added when requesting firmware file.
Firmware File Postfix	Postfix that will be added when requesting firmware file.
Config File Prefix	Prefix that will be added when requesting config file.
Config File Postfix	Postfix that will be added when requesting config file.
XML Config File Password	Specifies the password for the configuration file.
Automatic Upgrade Interval	Specifies the upgrade interval in minutes.
DHCP Option 66 Override Server	Activates DHCP option 66 to override upgrade/config servers.
Zero Config	Enables Zero Config feature for auto provisioning.
Automatic Upgrade	Enables automatic upgrade and provisioning.

Reboot & Reset

This page allows user to reboot and reset the GDS3705.

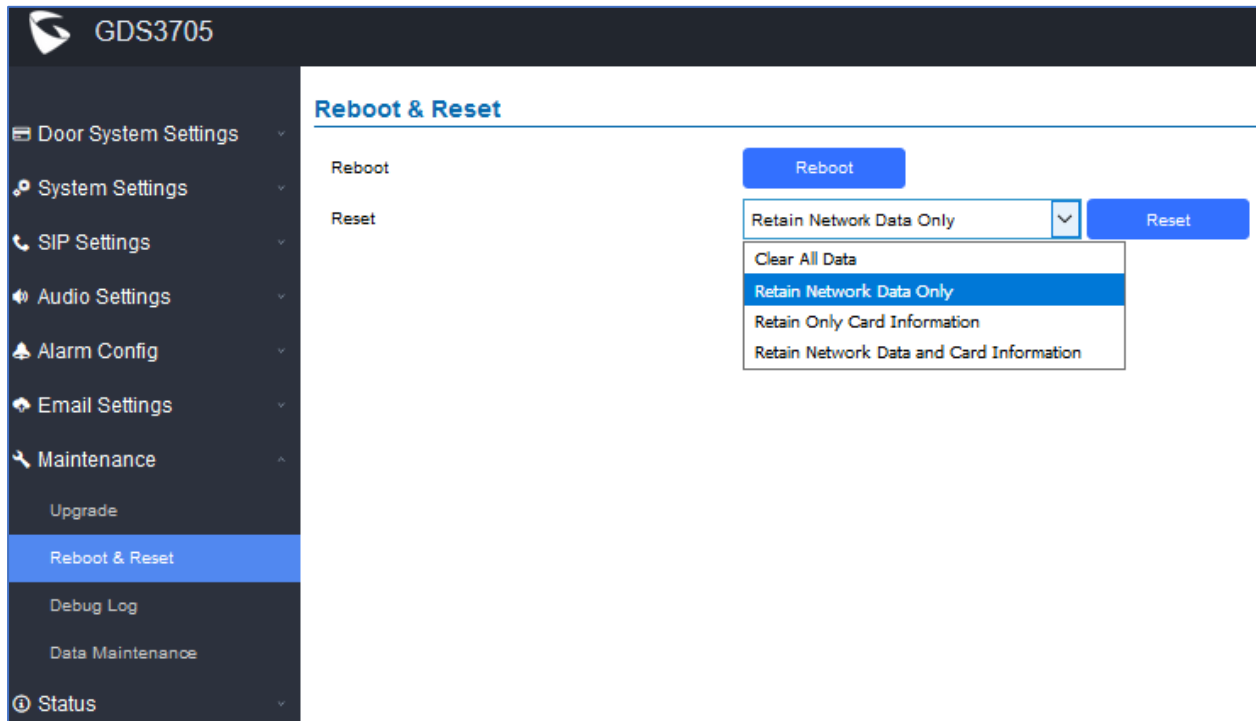


Figure 53: Reset & Reboot Page

Table 25: Reset & Reboot

Reboot	When clicked, the GDS3705 will restart (soft reboot).
Reset	There are two options for the reset function.
Clear All Data	All data will be reset, GDS3705 will be set to factory default.
Retain Network Data Only	All data will be erased except for Network data like IP address...
Retain Only Card Information	All data will be erased except for cards information.
Retain Network Data and Card Information	All data will be erased except for Network Data and Card Information.

Debug Log

This page allows user to configure SYSLOG to collect information to help troubleshooting issues with GDS3705.



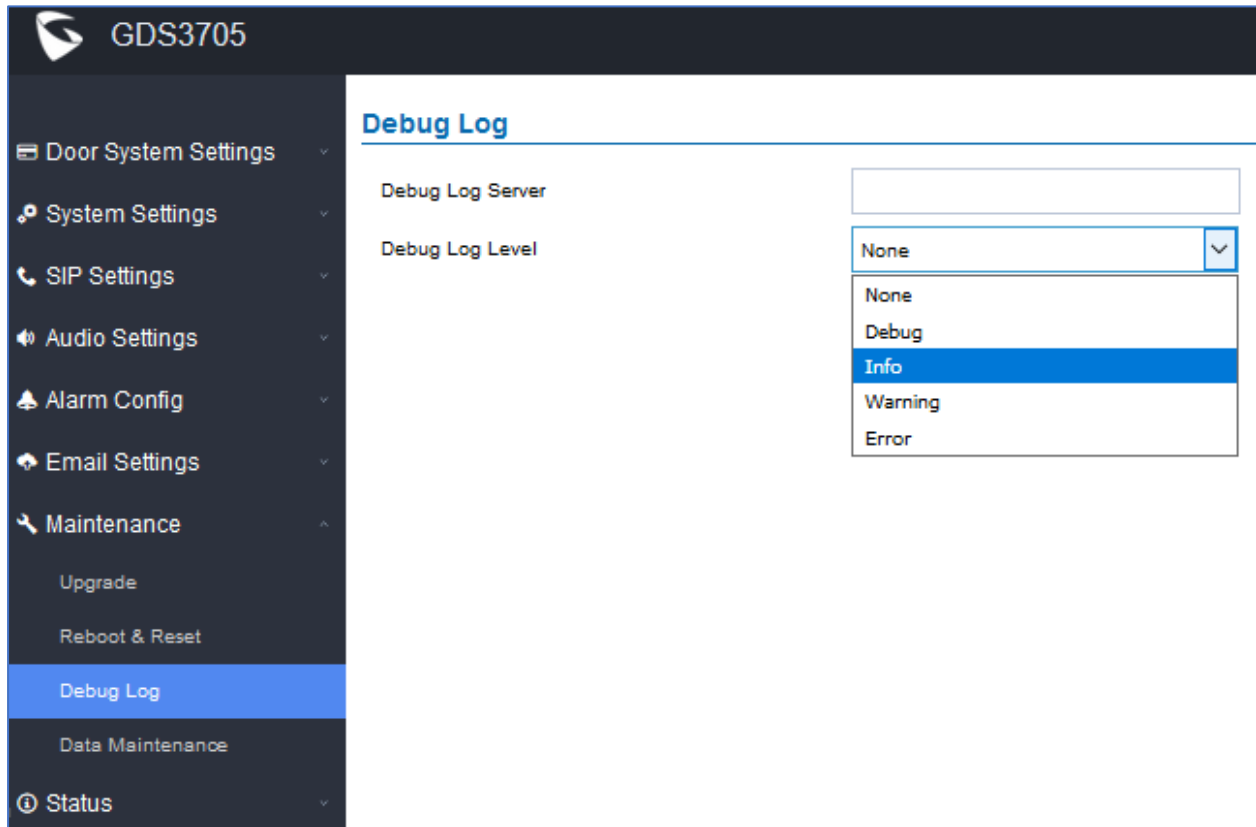


Figure 54: Debug Log Page

Notes:

- Five levels of Debugging are available, None, Debug, Info, Warning, Error.
- Once the Syslog Server and the level entered, press “Save” and then Reboot the GDS3705 to apply the settings.

Data Maintenance

This page allows users to manage the GDS3705 configuration file by importing / exporting the configuration files.

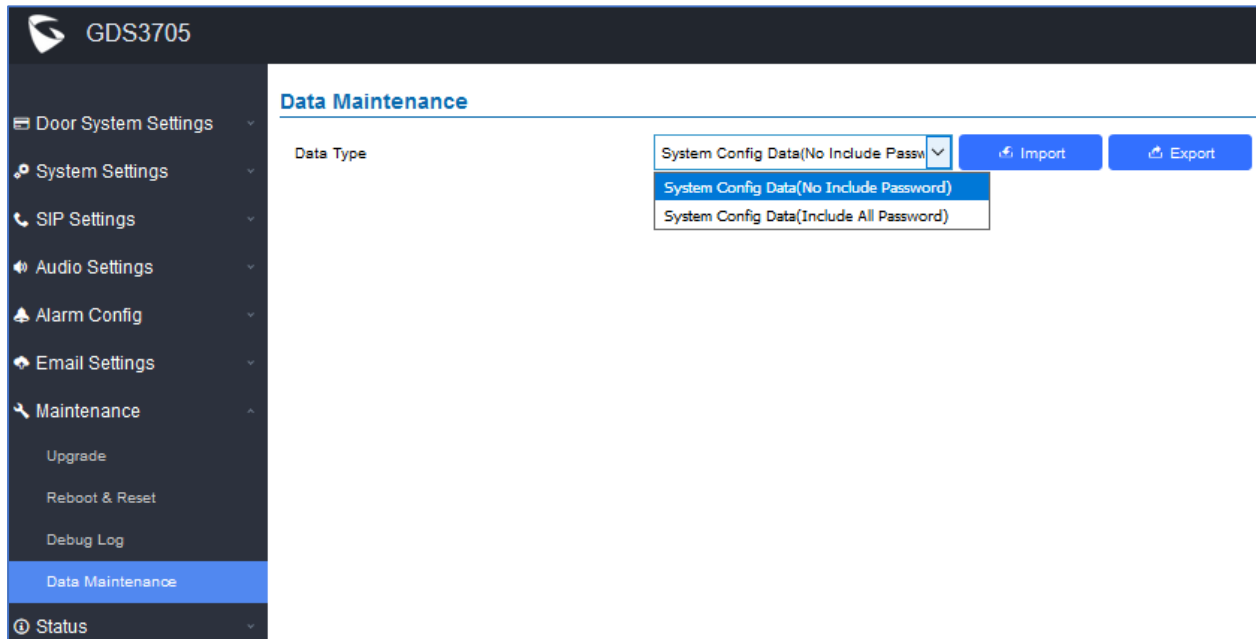


Figure 55: Data Maintenance Page

Click on  to save the GDS3705 configuration in a predefined directory.

Note: Users can either select to include all the passwords (SIP, FTP, Remotes access...) on the configuration files exported or not including the passwords as displayed on the previous figure.

Status

This page displays GDS3705 system and network information.

System Info

This page displays information such as the product model, the hardware version, firmware...

Door System Settings

System Settings

SIP Settings

Audio Settings

Alarm Config

Email Settings

Maintenance

Status

System Info

Network Info

System Info

Product Model	GDS3705
Hardware Version	V1.2A
Part Number	9630001612A
Kernel Version	1.0.0.20
RootFS Version	1.0.0.20
Prog Version	1.0.0.20
System Up Time Since	1 hour 3 minutes

SIP Registered

Offline

Figure 56: System Info Page

Table 26: System Info

Product Model	Displays the Product Model.
Hardware Version	Displays the Hardware Version.
Part Number	Displays the Part Number.
Kernel Version	Displays the Kernel Version.
RootFS Version	Displays the RootFS Version.
Prog Version	Displays the Prog Version.
System Up Time Since	Displays the time since the first boot of the GDS3705.

Notes:

- When the SIP account is registered, the status display will be **Online**
- When SIP account is unregistered, the status display will be **Offline**

Network Info

This page displays the network system information of GDS3705.



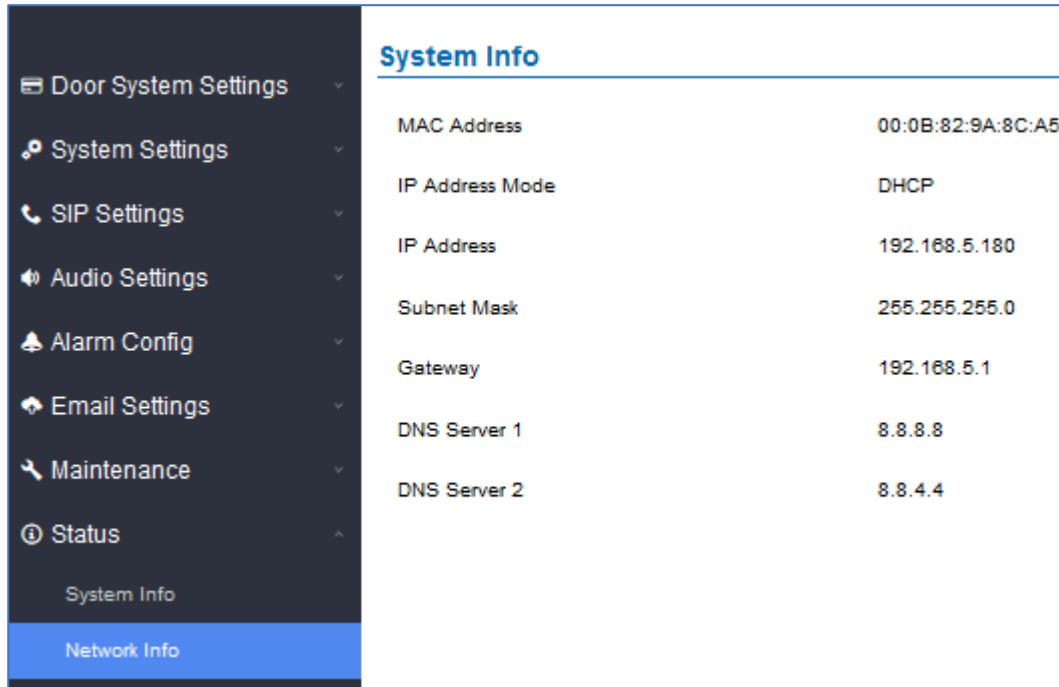


Figure 57: Network Info Page

Table 27: Network Info

MAC Address	Displays the GDS3705 MAC Address.
IP Address Mode	Displays the IP address mode used.
IP Address	Displays the IP address of the GDS3705.
Subnet Mask	Displays the Subnet Mask used.
Gateway	Displays the GDS3705 Gateway.
DNS Server 1	Displays the Preferred DNS Server.
DNS Server 2	Displays the secondary DNS Server.

FACTORY RESET

Restore to Factory Default Via Web GUI

To perform factory reset to the GDS3705 via the Web GUI, please refer to following steps:

1. Access to GDS3705 Web GUI using the using the shipped default password.
2. Navigate to **Maintenance → Reboot & Reset**.
3. Select the reset type from Rest drop down menu and press reset button as displayed on the following screenshot.

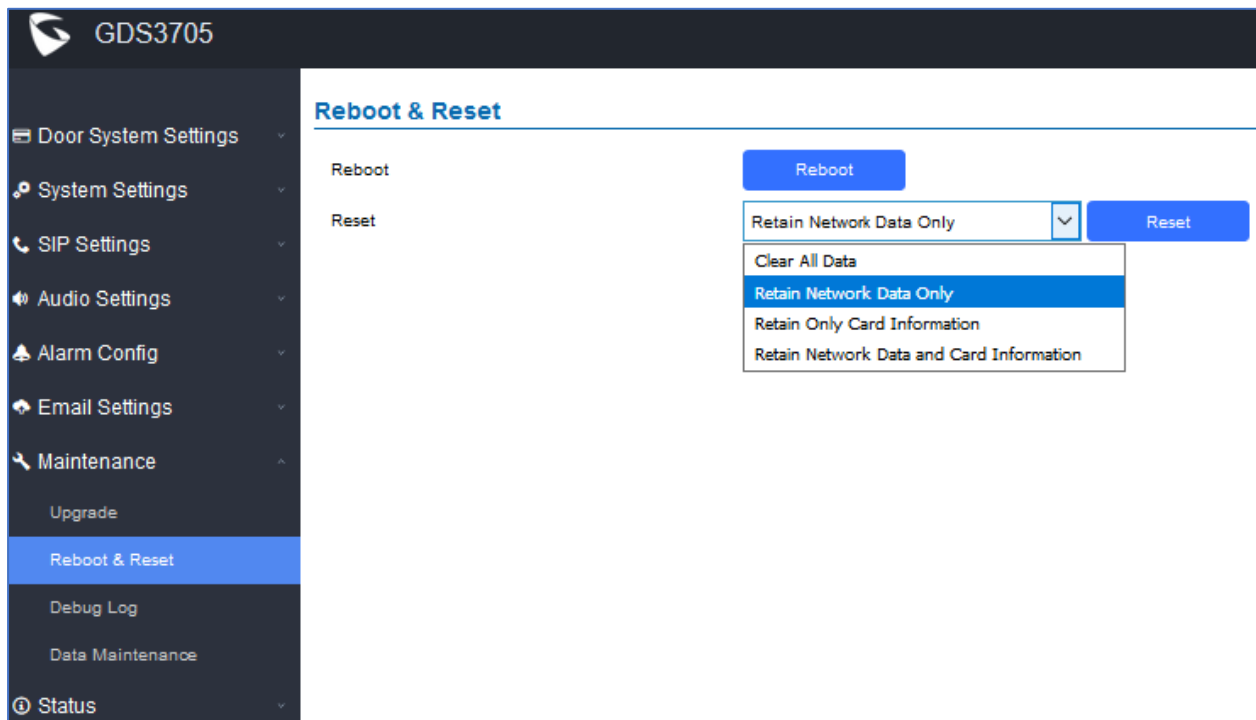


Figure 58: Reset via Web GUI

Hard Factory Reset

Some users did not keep the revised password safely and forgot the changed password. Due to GDS3705 did NOT have built-in reset button (Grandstream purposely designed this way to enhance security), this will make the GDS3705 inaccessible even for the true owner who lost the changed password.

Below is a photo of the normal connection of the provided Wiegand cable.

Important note: Power must **NOT** be lost while performing hard factory reset.





Figure 59: Wiegand Interface Cable

To perform hard factory reset to the GDS3705, please refer to following steps:

1. Power OFF the GDS3705.
2. Take the provided Wiegand cable, connect (or shorting) the related color wires as illustrated on the following picture. Please make sure the connection is correct and solid:
 - Connect **WHITE** and **BROWN** cable together.
 - Connect **GREEN** and **ORANGE** cable together.

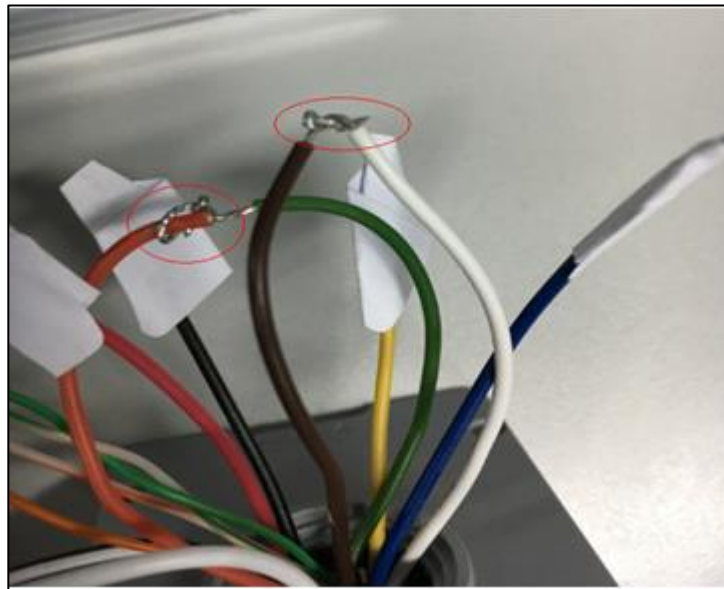


Figure 60: Wiegand Cable Connection

3. Power ON the GDS3705. In about 10 seconds, the key pad LED lighting will change from solid lighting to blinking, the blinking time window is about 30 seconds. The user needs to enter the following key combination ***0#** while the LED is blinking.

Notes:

- If the correct key combination inputted, the last key input will play with a long tone, illustrating the correct key combination entered, then the GDS3705 will get into factory reset mode.
 - During the blinking time window, if the user does not finish the key combination operation, or pressed the wrong key combination, the GDS3705 will play short beep quickly three times illustrating error. Nothing will happen and the GDS3705 will get into normal booting process. User who wants to do hard factory reset has to perform the operation from the beginning again.
4. After 3 ~ 5 minutes the GDS3705 will finish performing the reset process, then the user can log into the GDS3705 web GUI using the shipped default password.
 5. User has to power OFF the GDS3705, unplug the Wiegand cable, power ON the GDS3705 again and make sure the GDS3705 is running correctly.



EXPERIENCING THE GDS3705

Please visit our website: <http://www.grandstream.com> to receive the most up-to-date updates on firmware releases, additional features, FAQs, documentation and news on new products.

We encourage you to browse our [product related documentation](#), [FAQs](#) and [User and Developer Forum](#) for answers to your general questions. If you have purchased our products through a Grandstream Certified Partner or Reseller, please contact them directly for immediate support.

Our technical support staff is trained and ready to answer all your questions. Contact a technical support member or [submit a trouble ticket online](#) to receive in-depth support.

Thank you again for purchasing Grandstream Door Phone System, it will be sure to bring convenience and color to both your business and personal life.

FCC Compliance Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Important: Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

