



## GRANDSTREAM GDS3712 Intercom Access System Installation Guide

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GDS3712  
Intercom Access System  
Quick Installation Guide

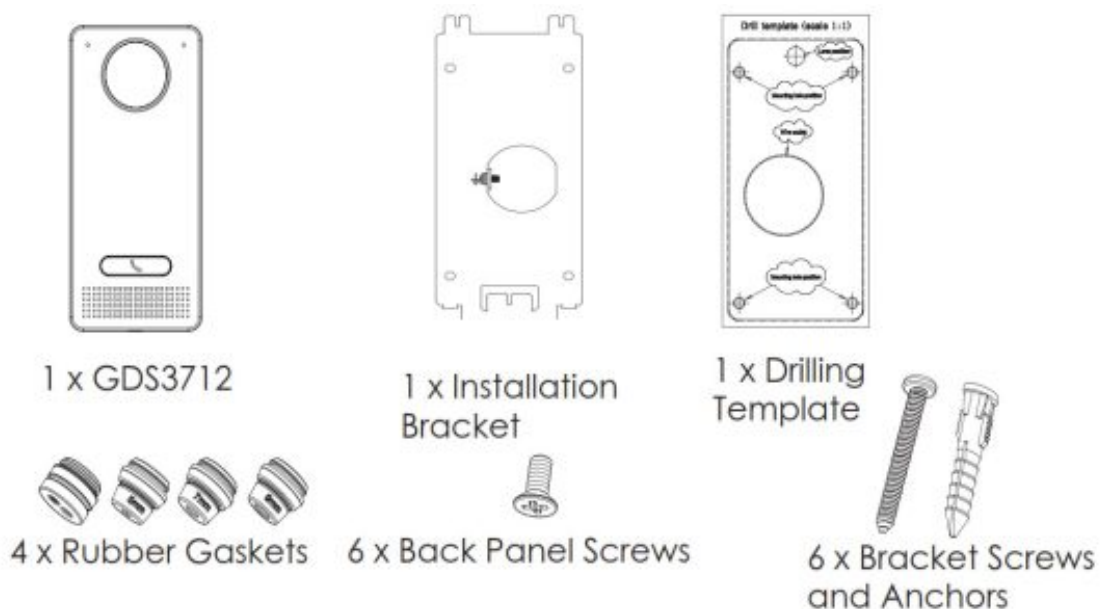
## Contents

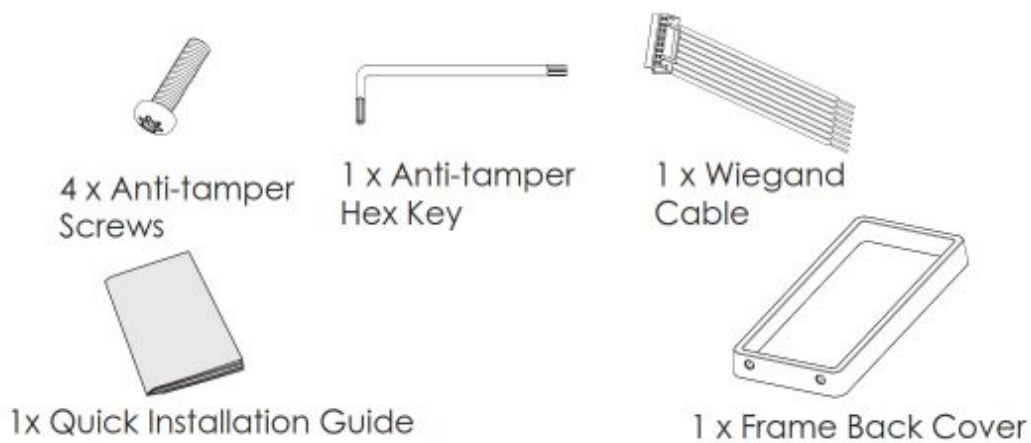
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## PRECAUTIONS

- Do not attempt to disassemble or modify the device.
- Strictly follow the requirement of power source.
- Do not expose this device to temperatures out the range of -30 °C to 60 °C for operating and -35°C to 60°C for storage
- If the temperature is under -30 degree, the device will take about 3 minutes to heat up itself before booting and operating.
- Do not expose this device to environments outside of the following humidity range: 10-90% RH (non-condensing).
- Please strictly follow the instruction to install or hire professionals to install properly.

## PACKAGE CONTENTS






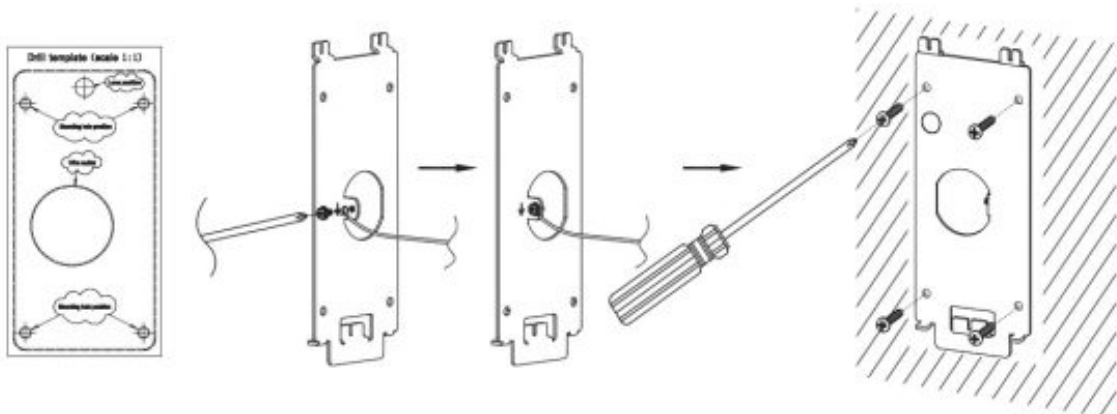
## MOUNTING GDS3712

### On-Wall (Surface) Mounting

#### Step 1:

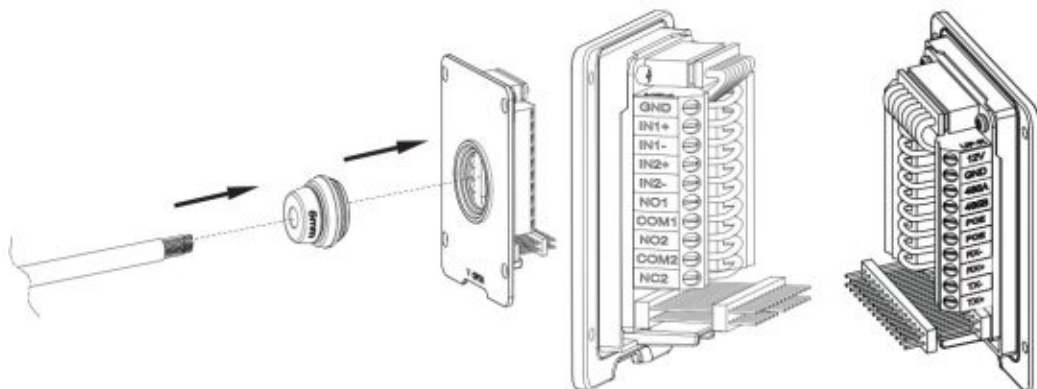
Refer to the “drilling template” to drill holes at targeted place on wall then mount the installation bracket using the four screws and anchors provided (screwdriver not provided). Connect and tighten “Ground” wire (if available) to

the bracket ground marked with printed icon .



#### Step 2:

Pull Cat5e or Cat6 cable (not provided) through the rubber gasket selecting the correct size and the back cover panel piece, please refer to GDS3712 WIRING TABLE at the end of QIG for Pin connections.



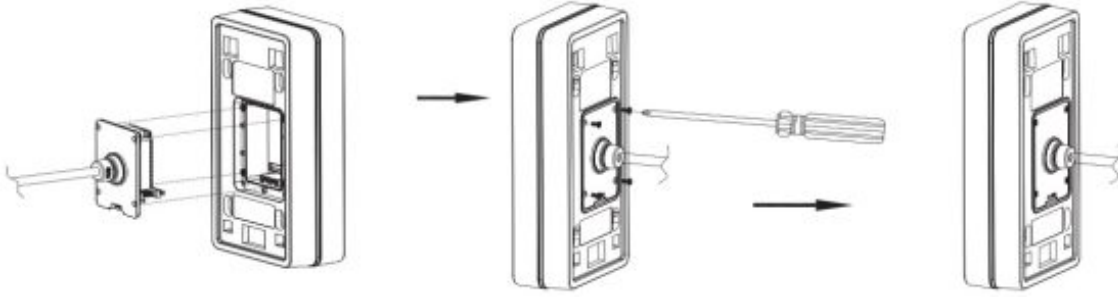
#### Note:

Needle nose plier highly recommended and 2.5mm flat screwdriver required (not provided). Stripping outer plastic shield of the cable in less than 2 inches suggested. Do NOT leave bare metal outside the socket by over stripping the inner plastic shield of the wires.

#### Step 3:

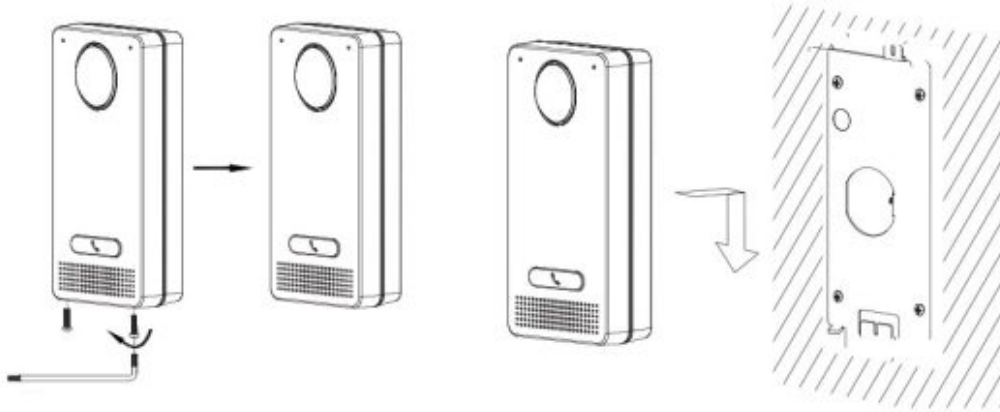
Make sure the “Back Cover Frame” is in place, the wired back cover panel is good. Flush the back cover panel

piece with the whole back surface of device, tighten it using the screws provided.



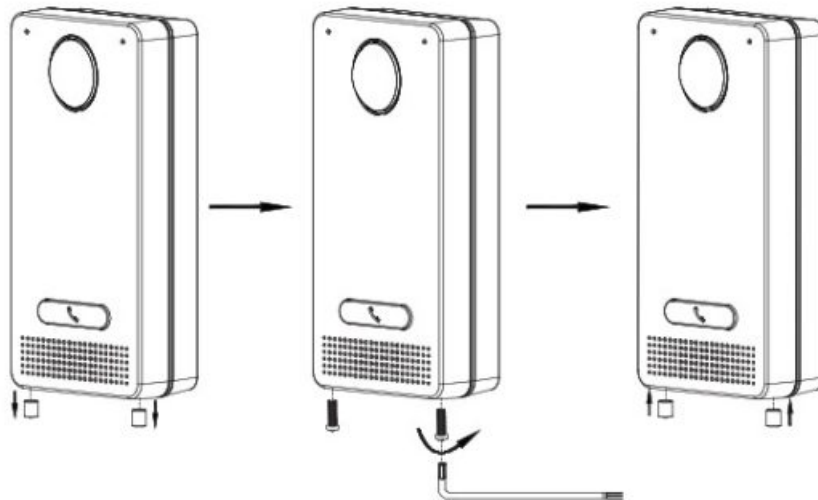
#### Step 4:

Take out the two preinstalled anti-tamper screws using the hex key provided. Carefully align the GDS3712 to the metal bracket on wall, press and pull the GDS3712 down to the right position.



#### Step 5:

Install the two anti-tamper screws back using the hex key provided (do NOT over tighten the screws). Cover the two screw holes on the bottom of “Back Cover Frame” piece using the two silicon plugs provided. Final check and finish the installation.



#### In-Wall (Embedded) Mounting

Please refer to the “In-Wall (Embedded) Mounting Kit”, which can be purchased separately from Grandstream.

## CONNECTING THE GDS3712

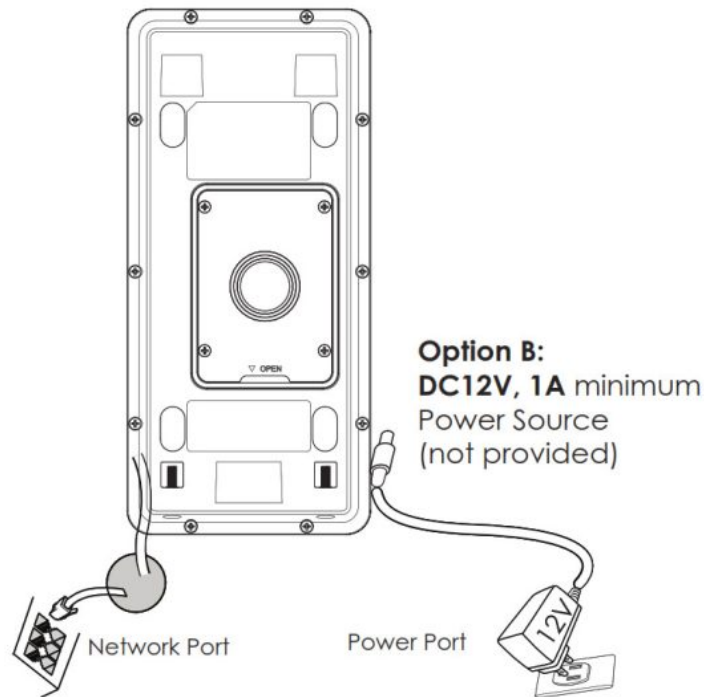
Refer to the illustration below and follow the instructions on the next page.



**POWER OFF** GDS3712 when connecting wires or inserting/removing the back cover panel piece!

#### Option A:

RJ45 Ethernet Cable to (**Class 3**) Power over Ethernet (PoE) Switch.



**Note:**

Choose Option A if using PoE switch (Class 3); OR: Option B if using 3rd party power source.

**Option A**

Plug an RJ45 Ethernet cable into the (Class 3) Power over Ethernet(PoE) switch.

**Option B**

**Step 1:**

Select an external **DC12V, minimum 1A** power source (not provided). Wire correctly the “+,-” cable of the power into the “12V, GND” connector of the GDS3712 socket (refer to the previous mounting page for instruction). Connect the power source.

**Step 2:**

Plug an RJ45 Ethernet cable into a network switch/hub or router.

**Note:**

Please refer to “Step 2” of “MOUNTING GDS3712” and “GDS3712 WIRING TABLE” at the end of QIG for all the wiring and connection illustration and instructions.

## GDS3712 CONFIGURATION

The GDS3712 is by default configured to obtain the IP address from DHCP server where the unit is located. In order to know which IP address is assigned to your GDS3712, please use GS\_Search tool as illustrated in following steps.

**Note:**

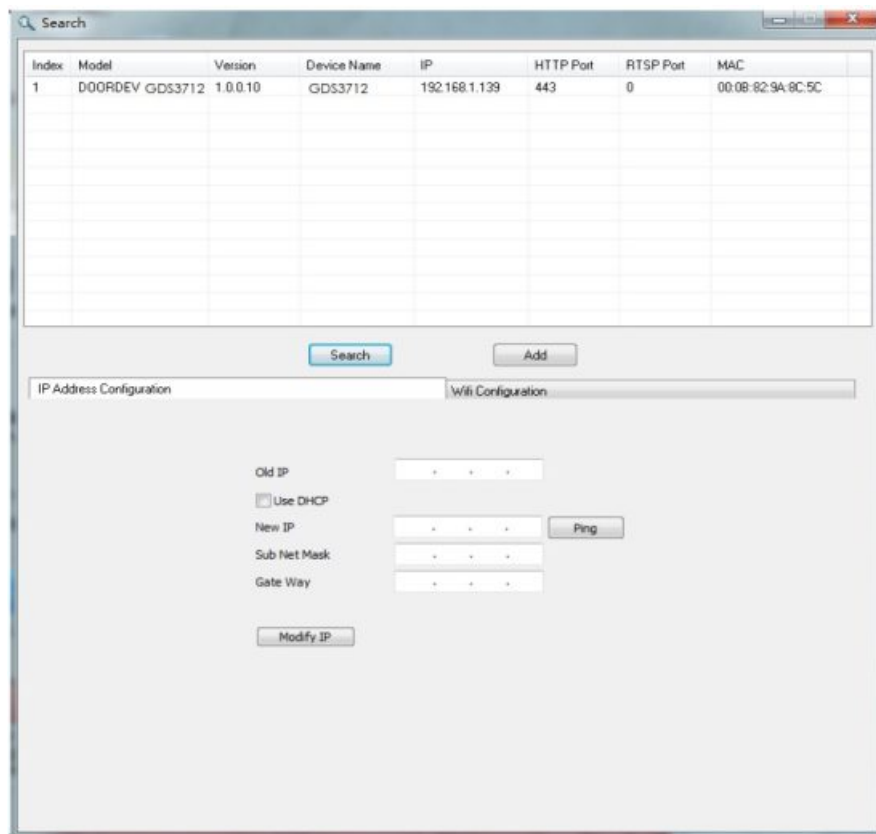
If no DHCP server is available, the GDS3712 default IP address (after 5 minutes DHCP timeout) is 192.168.1.168.

**Step 1:** Download and install GS\_Search tool: <http://www.grandstream.com/support/tools>

**Step 2:** Run the Grandstream GS\_Search tool on a computer connected to same network/DHCP server.

**Step 3:** Click on  button to start device detection.

**Step 4:** The detected devices will appear in the output field as below.

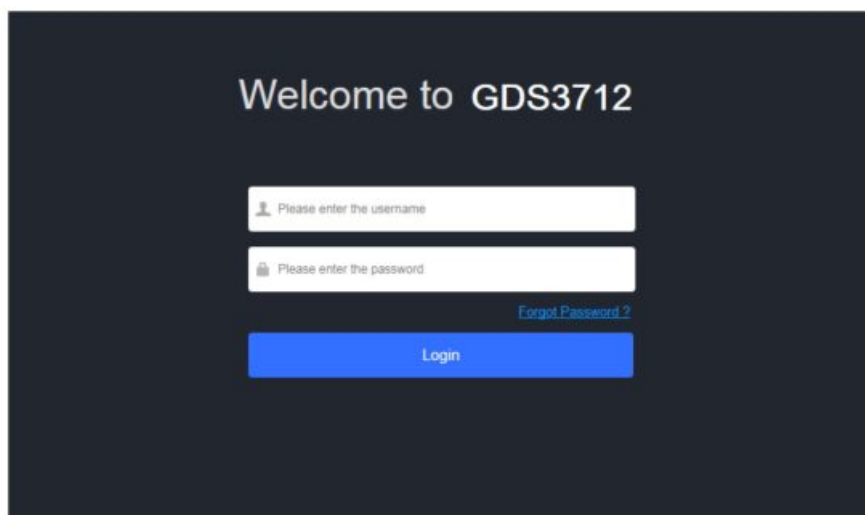


**Step 5:** Open the web browser and type the displayed IP address of GDS3712 with leading https:// to access the web GUI. (For security reasons, the default web access of GDS3712 is using HTTPS and port 443.)

**Step 6:** Enter username and password to login.

(The default administrator username is “admin” and the default random password can be found at the sticker on the GDS3712).

Note: For security reasons, make sure to change the default admin password from **System Settings > User Management**.



**Step 7:** After login into the webGUI, click the left side menu in the web interface for more detailed and advanced configuration.

The GNU GPL license terms are incorporated into the device firmware and can be accessed via the Web user interface of the device at my\_device\_ip/gpl\_license.

It can also be accessed here: <https://www.grandstream.com/legal/open-source-software>

To obtain a CD with GPL source code information please submit a written request to: [info@grandstream.com](mailto:info@grandstream.com)

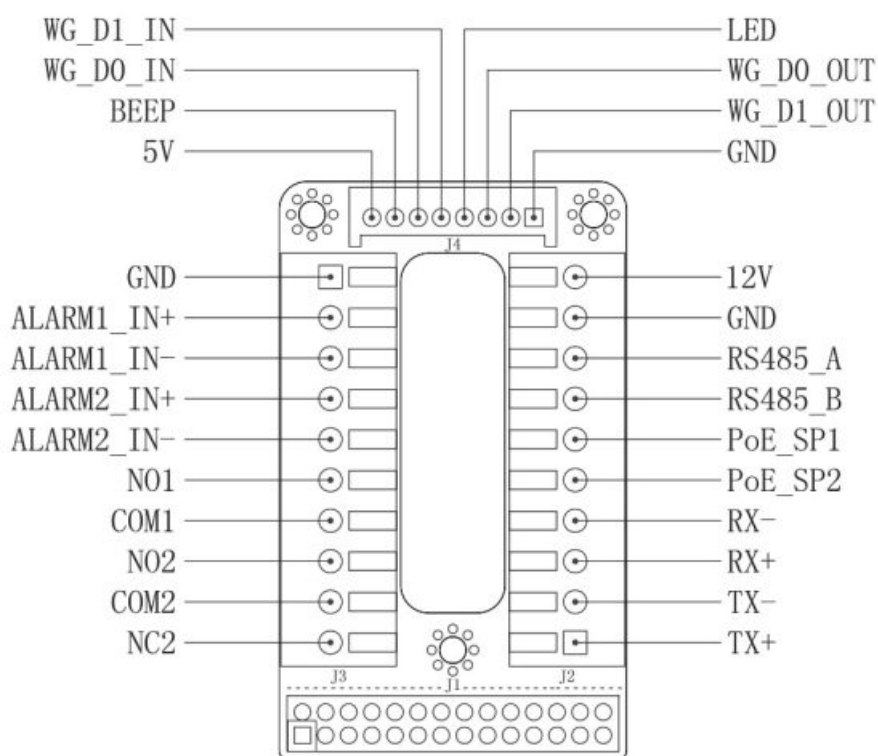
## GDS3712 WIRING TABLE

Jack	Pin	Signal	Function
J2 (Basic) 3.81mm	1	TX+ (Orange/White)	Ethernet, PoE 802.3af Class3. 12.95W
	2	TX- (Orange)	
	3	RX+ (Green/White)	
	4	RX- (Green)	
	5	PoE_SP2 (Blue + Blue/White)	
	6	PoE_SP1 (Brown + Brown/White)	
	7	RS485_B	RS485
	8	RS485_A	
	9	GND	Power Supply
	10	12V	
J3 (Avanced) 3.81mm	1	GND	Alarm GND
	2	ALARM1_IN+	Alarm IN
	3	ALARM1_IN-	
	4	ALARM2_IN+	
	5	ALARM2_IN-	
	6	NO1	Alarm Out
	7	COM1	
	8	NO2	Electric Lock
	9	COM2	
	10	NC2	
J4 (Special) 2.0mm	1	GND (Black)	Wiegand Power GND
	2	WG_D1_OUT (Orange)	Wlegand Output Signal
	3	WG_D0_OUT (Brown)	
	4	LED (Blue)	Wiegand Output LED Signal
	5	WG_D1_IN (White)	Wiegand Input Signal
	6	WG_D0_IN (Green)	
	7	BEEP (Yellow)	Wiegand Output BEEP Signal
	8	5V (Red)	Wiegand Power Output

For more details regarding GDS3712 wiring, please refer to User Manual.

Electric Lock			GDS3712 Connection			Door
Type	Power On	Power Off	NC2	NO2	COM2	Normal Status
Fail Safe	Lock	Open				Lock
				■	■	Open
Fail Secure	Open	Lock		■	■	Lock
						Open

**NOTE:**  
 \* Please select the correct wiring based on different electric strike/lock and the normal status of door.  
 \* Electric Magnetic Lock will work at Fail Safe mode ONLY.



**Note:**


1. Power PoE\_SP1, PoE\_SP2 with DC, the voltage range is 48V~57V, no polarity.
2. Power with PoE the cable wiring:
  - PoE\_SP1, brown and brown/white binding
  - PoE\_SP2, blue and blue/white binding
3. DC Power could be correctly sourced from qualified PoE Injector.

This product is covered by one or more of the U.S. patents (and any foreign patent counterparts thereto) identified



at [www.cm spatents.com](http://www.cm spatents.com).

## Documents / Resources

	<a href="#">GRANDSTREAM GDS3712 Intercom Access System</a> [pdf] Installation Guide GDS3712, YZZGDS3712, GDS3712 Intercom Access System, Intercom Access System
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## References

- [Grandstream Networks - Networking & Unified Communications](#)
- [Open Source Software](#)
- [Tools- Grandstream Networks](#)
- [Open Source Software](#)

Manuals+.