Call Button Kit Installation
(AND-BTN-KIT-1)

> **Warning: Remove power prior to installation to avoid possible damage of components.**

OVERVIEW

The AND Call Button Kit (AND-BTN-KIT-1) includes a momentary push button with wall plate. The button connects to the general purpose input of an AND device.

NOTE: LEGACY DEVICE COMPATIBILITY CONSIDERATION

Older devices with a MAC address less than 20:46:F9:05:30:00 require an AND-PIA-2 card (AND-PIA-2D for IPSIGNL-RWB or IPCDS-RWB) to interface with the button, except for the ZONEC2 which can directly connect to the button. Contact AND tech support (tech@anetd.com) for more information or help determining product compatibility.

WIRING

Use 18 - 22 AWG stranded or solid core wire for connection between the button and the AND device. Strip the device end of the wires to 8mm. Connect the wires to the two inputs on the GPIO 0 terminal of the device by pushing down on the terminal tabs and inserting the wires into the terminal holes. (See Fig. 1) For devices with MAC address 20:46:F9:0B:xx:xx-0D:xx:xx, add a 2 pin connector (Phoenix Contact 1757019, not included) over two pins at bottom of board first and connect to them. (See Fig. 2) Polarity of the wires does not matter. Strip and connect wires at other end of run to screw terminals of button.   To trigger the input sensing, press the button.
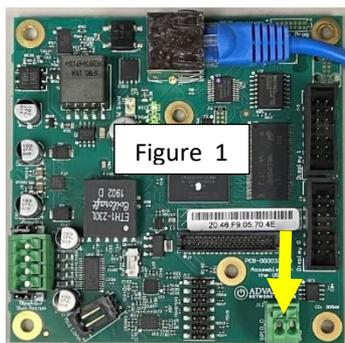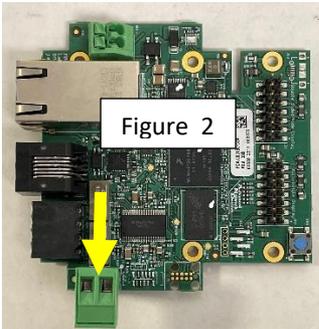

Figure 1

Figure 2

NON-REGISTERED OPERATION

If the AND device is not registered with any servers, you can use the following general purpose URL callback to generate actions based on an input change, such as a push button press.

1. Power up the AND device with the monitored input.

2. Configure a GPIO Callback URL for the device. This example uses the URL *http://10.10.3.4:8089/directory/file,* where *10.10.3.4:8089* is the IP address and port of the server that will receive the response. Note that *directory* and *file* are optional parameters.

   - If configuring the device using the device's web page, select **Device Settings → Servers** to locate the *GPIO Callback URL*. Set the URL to *http://10.10.3.4:8089/directory/file*, and save the settings.

   - If using a configuration file, add the following tag:

```
 <GPIO_callback
url="http://10.10.3.4:8089/directo
ry/file"
min_update_period_ms="250"

 />
```

3. Reboot the device.

   In this example, when the input changes state, the device will execute an HTTP GET to 10.10.3.4, port 8089, of the following format (parameters detailed below):

```
GET
/directory/file?address=2046f9
010203&gpinputid=0&state=1&tra
nsitions=340
```

Parameter	Description
address	The MAC address of the device with the input state change
gpinputid	the input number that changed
state	state of that input (0 or 1)
transitions	the total number of transitions for that input since last reboot

IPCLOCKWISE GPIO CALLBACK

1. Obtain the IP address of the PC running IPClockWise. In Windows, run *ipconfig* from a command prompt to list the address.

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tech@anetd.com • 847-463-2237 • www.anetd.com/user-support/
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IPclockwise

v1.6

2. Power up the AND device with the monitored input.

3. Set the GPIO Callback URL to *http://10.10.3.4:8089* where *10.10.3.4* is the IP address of the PC running IPClockWise. See section 2 of *Non-Registered Operation* for configuration options.

4. In IPClockWise, under the *Alerts* tab, select *Add an Alert*.

5. In the *Edit Alert* window, in the middle section labeled *Trigger*, select *GPIO In* in the *Source* drop down box and then select the appropriate *Channel*, 0 or 1, depending on the input the alert will monitor.

6. Optional: To trigger a Live Sound Intercom or Monitor request with the triggered input, select an *Extra Action*, typically *Intercom*. For example, if selecting *Intercom* for an AND device equipped with a call button, IPClockWise will sound an alert in the Intercom Call Waiting tab of the Live Sound tab when pressing the button. This action will alert the IPClockWise attendant of an intercom call request, to which the attendant can respond by double-clicking on the device in the call waiting list.

7. Check the checkbox next to the device(s) with the monitored input in the *Listen for trigger source* list at the bottom of the screen.

8. Fill out the remaining details of the Alert, such as a scrolling message and audio file, as well as the devices to receive the alert in the *Output devices* list, if desired.

9. Select *OK* to save the Alert. IPClockWise will now respond to the input as configured.

PUSH-TO-TALK OPERATION

You can use the push button to ring and/or connect to an AND device, a phone, or other third-party SIP device, when configured for "push-to-talk" operation.

AND Device to AND Device Operation

1. Configure the device.

- If configuring the device using on-board settings, access the device's web page, select **Device Settings → SIP**. Under *SIP General Settings*, set *Promiscuous Mode* to "Yes". Under *SIP GPIO Input Action Settings*, set the *Push-to-Talk 1* parameter to the MAC address or IP address of the AND device to call when pressing the button.

Note, for MAC addresses, include the colon between each digit pair (e.g., `20:46:F9:03:02:01`). Save settings.

- If configuring the device using a configuration file, add or modify the following parameters in the *SIPConfig* tag:

```
<SIPConfig
   promiscuous_mode="1"
push_to_talk_ip1="20:46:F9:03:02:01"
   />
```

2. Reboot the device. A momentary press of the push button will put the two devices into a two-way conversation, provided both devices have microphones. Press the button again to end the call.

AND Device to Phone Operation

1. Configure the AND to register to a SIP server.

- If configuring the AND device using on-board settings, access the device's web page, and select **Device Settings→ SIP**. Under *SIP GPIO Input Action Settings*, set the *Push-to-Talk 1* parameter to the extension or SIP ID of the phone or third-party device to call when pressing the button. Save the settings.

- If configuring the device using a configuration file, add, or modify the push_to_talk_ip1 parameter in the *SIPConfig* tag:

```
<SIPConfig
   push_to_talk_ip1="2450"
   />
```

- See related third-party documentation for details on setting up a SIP extension on the AND device.

2. Reboot the device. A momentary press of the push button will dial the phone or device specified by the programmed extension number. If the phone or other device accepts the call, they will be put into a two-way conversation. Press the button again to end the call.

ADDITIONAL RESOURCES

User Support:
https://www.anetd.com/user-support/

Technical Resources:
https://www.anetd.com/user-support/technical-resources/

AND Legal Disclaimer:
https://www.anetd.com/legal/