ADVANCED NETWORK DEVICES

MOUNTING THE DEVICE

- Use device to mark installation location.
- Choose the best location and orientation to make the push button easy to access by the user, as well as to connect the network cable.
- Secure device using mounting hardware appropriate for the installation surface.
- Drywall: #8-32 steel screw x 1-5/8" min. length fastened to a 75 lbs. rated drywall anchor, or similar
- Concrete: #8-32 steel screw x 5/8" min. length fastened to a 8-32 concrete anchor with 9/16" min. length, or similar

CONNECT TO THE NETWORK

- Connect a network cable (CAT5e or better) to the RJ-45 port (PoE/PoE+).
- Connect the other end of the network cable to a PoE (Power over Ethernet) network switch or PoE injector on a network with a DHCP server.

ACCESS THE DEVICE

Use one of these ways to access the device:

- Enter the IP address assigned by the DHCP server in your browser.
- Enter the IPv6 link-local address in your browser, formatted as *http://[fe80::2246:f9ff:feXX:XXXX]* (XX:XXXX = last 6 digits of MAC address).
- Double-click on the device in the IPClockWise Endpoints list to open the web server interface.

- For third-party software application, consult guide for access method (often uses configuration file).

CONFIGURATION OPTIONS

The device ships with default settings:

SIP Mode	"Button"
Push-to-Talk 1 Trigger Only	"Yes"
Activate GPIO 0 During Active Call	"Yes"
Send Activations Only	"Yes"
GPIO 0 Output Pulse Time	"5000"
GPIO 0 Output Blink Period	"500"
Indicate GPO	"0"
Emergency Indication	"SIP"
Indicate Trying Action	"Clear"
Indicate Success Action	"Blink"
Indicate Unready Action	"Clear"
Indicate Ready Action	"Set"
Indicate Failure Action	"Clear"

Configuration File Setup

```
<SIPConfig
  SIP_mode="button"
  push_to_talk_ip1_trigger_mode="1"
  gpio0_when_active_call="1" />
<GPIO
  pulse_ms_output_gpio0="5000"
  blink_ms_output_gpio0="500" />
<GPIO_callback
  send_activations_only="1" />
<Indicate
  indicate_gpo="0"
  trying_action="clear"
  success_action="blink"
  unready_action="clear"
  ready_action="set"
  failure_action="clear" />
```

REGISTRED SIP CALL

Register the Smart IP Button device to an SIP server to call an SIP phone or ring a group and playback a pre-recorded message. See App Note #48 for details.

Configuration File Parameters

SIPConfig tag (values included for example):

```
<SIPConfig
  push_to_talk_ip1="301"
  mic_replacement_filename="file.wav"
/>
```

Web Server Settings

- If not using configuration files, go to *Device Settings → SIP*.
- Under *SIP GPIO Input Action Settings*, set *Push-to-Talk 1* to the SIP extension to call and *Mic Replacement Filename* to the audio wav file to playback.
- Select *Save and Apply* to save changes.

DIRECT SIP CALL

Call a SIP phone directly without registration to a SIP server.

Configuration File Parameters

SIPConfig tag (values included for example):

```
<SIPConfig
  push_to_talk_ip1="sip:301@10.10.7.168"
/>
```

Web Server Settings

- Go to *Device Settings → SIP*.
- Under *SIP GPIO Input Action Settings*, set *Push-to-Talk 1* to the SIP extension the button should call.
- Select *Save and Apply* to save changes.

PUSH AND HOLD SIP CALL

In addition to the Push-to-Talk call, configure a second action (registered or direct SIP call) to dial a different SIP extension when holding the button for a specified time or longer.

Configuration File Parameters

SIPConfig tag (values included for example):

```
<SIPConfig
```

```
  push_to_talk_ip1_alt="301"
  push_to_talk_ip1_alt_ms="2000"
/>
```

Web Server Settings

- Go to *Device Settings → SIP*.
- Under *SIP GPIO Input Action Settings*, set *Push-to-Talk 1 Alternate* to the SIP extension the button should call when held for the desired duration.
- Set *Push-to-Talk 1 Alternate Hold Time* to the desired duration (in milliseconds) to hold the button to trigger the call.
- Select *Save and Apply* to save changes.

HTTP CALLBACK

Send an HTTP GET to IPClockWise or a third-party software solution.

Configuration File Parameters

GPIO_callback tag (value included for example):

```
<GPIO_callback
 url="http://10.10.7.168:8089/"
/>
```

Web Server Settings

- Go to *Device Settings → Servers*
- Set *GPIO Callback URL* to the HTTP string.
- Select *Save and Apply* to save changes. See the IPClockWise manual to configure an alert to trigger on this callback.

CONFIGURE THE BUTTON

- Set up the button to trigger notifications, alerts, or other signal (see next page). Consult the IPClockWise User Manual (available on the Customer Portal www.anetd.com/portal/) or third-party software guide for further instructions.
- After configuration is complete, the light on the button will illuminate indicating the device is successfully connected and ready for use. If it does not illuminate, re-check the configuration settings or contact our Technical Support team
- Test operation before putting into service.

OPERATION

With the default settings, the following LED states are encountered during operation.

The button LED illuminates when the device is registered to a server and ready for use.

SIP Emergency Indication Mode: Once the button is pressed, and a connection is made to the configured SIP extension, the LED will blink indicating success.

HTTP (Server) Emergency Indication Mode: Once the button is pressed, and communicates to the configured server, the LED will blink indicating success.

The LED success state can only be canceled by a separate Clockwise Campus emergency state clear notification or using SNMP to set the device's emergencyActive OID to "2" (false). This OID value is 1.3.6.1.4.1.39866.3.1.3.27.1.0.

RESOURCES

SIP Configuration:
ipspeaker.com/support30/help/settings.html#sip
User Support: anetd.com/user-support/
AND Limited Warranty: anetd.com/warranty/
Legal Disclaimer: anetd.com/legal/