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The RDX Radio Interface

The RDX Radio Interface is used for linking portable radio units to Green-GO system, featuring a full-duplex DTX signal. Below shows information about channels, configurating the four buttons on the front of the device with access to many of the same functions and features as available on the Green-GO system.

The RJ-45 PTT connection is presented as a G-Switch Extension (Peripheral via PoE through network cable connected to the device Ethernet port).

A keypadless radio assembly is required between the interface and a suitable radio of your choice, please see ➡ G-Switch Tyrn units for details on termination and Example adapter schematics.

What's in the box?

The Green-GO RDX radio interface comes with the following package contents:

- 1 x Green-GO RDX radio interface
- 1 x Printed quickstart guide

Optional Green-GO accessories

Device overview

Front panel

4 Buttons
The Keys ( ), are used to enter and navigate the setup menu.

4 RGB Status LEDs
The device or channel status is presented by four powerful RGB LEDs.

1 OLED Display
The 128x64 pixel, color OLED display presents channel and device information clearly but concisely.

Back panel

1 PoE Powered 10/100 Mbps Remote EtherCON
The 10/100 Mbps Remote EtherCON serves as the network input and connection to the local network.

1 G-Stak 9-Radio Connector
An external radio is connected to the G-Stak 9-connector. Both audio and PTT control are transmitted to the headset connector of any radio.

2 Jumper Switches
The two jumper switches can be used to adjust the physical connection to the external radio.

The user interface

The user interface of the RDX radio interface is compact and straightforward:

1. The user linked to the device is shown on top of the screen.
2. Currently enabled channels and the input level coming from a connected radio is shown in the middle of the screen.
3. On the bottom of the screen, the channel(s) receiving communication from the Green-GO network is displayed with the maximum signal level going to the connected radio.

Interfacing with a radio

The Green-GO RDX radio interface can interface with a broad range of two-way radios.

The device can be connected to a standard radio using a suitable adapter cable (Example adapter schematics) and can easily be used with a standard radio by the radio type that you wish to use. The cable will connect the G-Stak 9 connector on the back of the RDX interface with the headset connector found on the radio.

NOTE! To avoid signal loss, your adapter cable should be shielded and no longer than 1.5 meters.

A correctly build adapter cable is crucial for correct operation. So, to get a better understanding of the RDX radio interface connections, it is good to know how the G-Stak 9 pins are actually connected internally.

As soon as the RDX radio interface receives audio on any channel from the Green-GO network, the push-to-talk relay will be activated. The received audio will then be sent to the headset via the connected two-way radio. Automatically transmitted to any channel using the `Automatic` channel mode.

G-Stak 9 pin-outs

G-Stak 9 Pin	Description
1	Audio Input (+)
2	PTT relay (normally closed)
3	PTT relay (common)
4	PTT relay (normally open)
5	Audio output (-)
6	Audio Input (-)
7	PTT relay (common)
8	Audio output (left ear)
9	Audio output (+)

Adjust the physical connection

As seen in the device diagram above, the two available jumper switches on the back of the RDX radio interface can be used to adjust the physical connection between the radio and the Green-GO network. Using the Dual square indicates the position of the jumper cable.

Switch 1
Switch 1 acts as an alternator for the transmitted audio signal.

Switch 2
Enables a path for a DC voltage supplied by the radio.

Example adapter schematics

Kenwood 2-pin KT

Potentially Compatible Devices

Kenwood 14 pin K2

Potentially Compatible Devices

Motorola 2-pin M1

Potentially Compatible Devices

Motorola 12 pin M4

Potentially Compatible Devices

Motorola 13 pin M5

Potentially Compatible Devices

Motorola 13 pin M7

Potentially Compatible Devices

Motorola 9 pin M9

Potentially Compatible Devices

Tait 9 pin TPR AM-005

Potentially Compatible Devices

Configure transmitting channels

Depending on your configuration we could make any be transmitted to your Green-GO network. To achieve this you need to configure the mode of one or more of the channels to `Automatic`.

Using the channel mode `Automatic` automatically enables a channel as soon as audio from the two-way radio reaches or overcomes the configured `Gain threshold`.

Setup Menu Guide

```
Setup Menu
  Channel 1
    Channel 2
      Channel 3
        >> Channel Mode: Automatic
```

Adjust the PTT behavior

Depending on your situation, adjusting your Green-GO RDX interface's `PTT mode` may be necessary to achieve the desired behavior. By default, the `PTT mode` is set to `Latch` and the Green-GO device applies a channel to the interface `TX mode`. This will usually force the Green-GO RDX interface channel to always operate in `Full duplex` or `Half duplex`.

The `Push-to-talk` or `Latch` `PTT mode` will activate the channel's `TX mode` only when a valid signal is received from the Green-GO network. Meaning remote Green-GO devices have to consume their `Beef Back threshold` before activating the PTT relay.

Setup Menu Guide

The setup menu

The setup menu is accessed by sequentially pressing both left hand buttons ( ) ( ).

The setup menu is accessed by sequentially pressing both left hand buttons ( ) ( ).

Once inside the setup menu, the left hand buttons will change function:

Using ( ) ( ) keys will confirm a selection or value within the ( ) ( ) (bottom-left) can be used to either exit the current sub (menu or cancel a value selection.

The right hand buttons ( ) ( ) ( ) ( ) are used to move a selection or change a selected value.

A **sub menu** can be active either the menu entry `Exit or Cancel`, and alternatively with the `Save and Exit` menu entry.

Access to the setup menu can be restricted by configuring the security options of a configuration file or user with the help of the Green-GO Control software. In sensitive security configurations, the user may be asked to enter the `Pack Passcode` before access is given.

Setup Menu Guide

User

The `User` submenu holds settings for user-relevant configuration like:

- The user that is linked to the device.
- The channel configuration.
- Configuration for the four special channels.
- General user settings (color, contrastsettings, etc.).
- Scroll management.

Select User

AVAILABLE USERS

This menu lists all available users of the active configuration file.

Menu location	User > Select User
Option range	Available configuration file
Default	User

Channels

Channel 1 – 12

The following is available for each of the channels:

ADDRESS

This menu allows selecting a communication target for the channel. Entering this menu will bring up a pre-filter that provides easy access to the active configuration file's available groups and users.

Menu location	User > Channels > 01 - Assign
Option range	Groups, Users, Cancel
Default	Group

LISTEN CHANNEL

This option allows defining a separate listen source for the channel. The user talks to the primary target assigned but listens to the group defined here.

Menu location	User > Channels > 01 - Listen Channel
Option range	None, Groups
Default	Group

LISTEN

A channel can be enabled or muted independently from the set channel `Latch`. The `Listen` state of the channel can be easily enabled or on off without losing the set channel level.

This option may be influenced by the `Listen Mode` setting.

Menu location	User > Channels > 01 - Listen
Option range	Muted, On
Default	On

LEVEL

This option defines the output level for the channel.

Menu location	User > Channels > 01 - Level
Option range	-40 dB – +15 dB (1 dB increments)
Default	0 dB

TALK MODE

The `Talk Mode` defines how a channel can be ➡ activated for voice communications with the left button.

Option	Description
Disabled	This option disables the left button on the channel.
Momentary	This option allows for a push-to-talk style of operation.
Latch	This option acts as a toggle. The first press enables talk, the second press disables talk.
Latch/Mom	This option allows for a mixed operation. Short presses act as a latch toggle, and the press passes allow for momentary transmissions.

Menu location	User > Channels > 01 - Talk Mode
Option range	Disabled, Momentary, Latch, Latch/Mom
Default	Latch/Mom

LISTEN MODE

A channel can be enabled or muted independently from the set channel `Latch`. The `Listen` state of the channel can be easily enabled or on off without losing the set channel level.

This option may be influenced by the `Listen Mode` setting.

Menu location	User > Channels > 01 - Listen
Option range	Muted, On
Default	On

PRIORITY

A channel can be configured with one of three priorities. For example, when a higher priority channel transmits, communication with lower priority can be attempted (Priority Dim).

Menu location	User > Channels > 01 - Priority
Option range	Low, Normal, High
Default	Normal

LISTEN MODE

The `Listen` state defines a muted or unmuted channel. The `Listen Mode` options define if and how the channel's listen state is triggered.

Mode	Description
Latch On / Off	This mode enables the `Listen` state of the channel (unmuted) as soon as the ➡ left button is first released. Enabling talk on the channel will disable the `Listen` state of the channel.
No Listen / Tx Talk	An active talk channel effectively `Listens` state of the channel (unmuted) bypass the `Listen Mode` setting.
Ignore Handset	This mode ignores the `Listen Mode`
Fixed	This mode doesn't change the `Listen` state.

Menu location	User > Channels > 01 - Listen Mode
Option range	Latch On / Off, No Listen / Tx Talk, Ignore Handset, Fixed
Default	Latch On / Off

CALL MODE

This option defines if call signals can be sent and/or received on the channel.

Option	Description
Disabled	This option disables all call signals on the channel.
Recv Only	Call signals can be received on the channel.
Send Only	Call signals can be sent on the channel.
Send/Recv	This mode enables the sending and receiving of call signals on the channel.

Menu location	User > Channels > 01 - Call Mode
Option range	Disabled, Recv Only, Send Only, Send/Recv
Default	Send/Recv

CUE MODE

The `Cue Mode` defines how an incoming cue signal is handled.

Option	Description
Disabled	This option allows for a fifteen stagger cue signal with a manual ready reply.
Auto Receiver	This option automatically accepts incoming cue signals on the channel, skipping the effective stagger ready reply.
Ignore	This option ignores incoming cue signals. Cue signals sent may be generated by other devices.

Menu location	User > Channels > 01 - Cue Mode
Option range	Disabled, Auto Receiver, Ignore
Default	Normal

CHANNEL MODE

The `Channel Mode` allows for simple automation that enables complex channel configurations.

Image has automatic repeat and pitch control but not the compander.

Value	Description
Normal	This is the default setting. The channel relies on some other voice communication to transmit.
No Repeat	This option disables the `Voice Repeat` function on the channel.
Repeat Normal	With this option set, the `Voice Repeat` function will repeat the last voice packet received on group
Auto Reply	This option automatically sends the last transmitted on the channel as soon as voice packets are received on the channel.
Autoidle	This option automatically opens the channel as soon as the selected input becomes active.
Solo Talk	This option automatically disables the talk function on any other channel when the channel is active (the channel itself is not affected).
GPS Control	This mode is special GPS control data packet on the channel and disables the talk function for the channel.

Voice Voice	User: Channels - 32 - Channel Mode
Voice Voice	Restrict: Any Radio, Same Group Only, Same Group Auto, Solo Talk, GPS Control
Voice Voice	Default: Normal

Special Channels

Each user has, in addition to the 32 normal channels, four additional special channels.

- **The temporary duplex channel** for private communications.
- **The passive program audio channel**.
- **The passive announcements channel**.
- **The passive emergency channel**.

Direct

The direct channel is temporary and functions bi-directional.

The channel gets created as soon as any remote user who is configured on any of the 32 channels contacts the user linked to this device (voice communication, call signal, sms signal).

LEVEL

This option defines the output level for the channel.

Voice Voice	User: Channels - Direct - Level
Voice Voice	Range: -40.0dB, +12.0B (1 dB increments)
Voice Voice	Default: 0.0B

PRIORITY

A channel can be configured with one of three priorities. For example, when a higher priority channel transmits, communication with lower priority can be attenuated (Priority Dim).

Voice Voice	User - Special Channels - Direct - Priority
Voice Voice	Low, Normal, High
Voice Voice	Default: Normal

CLIE MODE

The `Clie Mode` defines how an incoming `Call signal` is handled.

Mode	Description
Normal	This option allows for a voice call to start with a normal alert tone.
Auto Answer	This option automatically answers incoming `Call signal` on the channel, assuming the software support is turned on.
Ignore	This option ignores incoming `Call signal`. Call signals will not be answered by other devices.

Voice Voice	User - Special Channels - Direct - Call Mode
Voice Voice	Normal, Auto Answer, Auto Answer
Voice Voice	Default: Normal

Programs

The channel for program audio is passive (listen-only), meaning the user can only receive audio on this channel. The channel receives audio through a group, two independent volume control and supports dimming when the user receives an audio signal on any of his 32 regular channels.

ASSIGN

This menu allows selecting a communication target for the channel. Entering this menu will bring up a pre-filter that provides easy access to the active configuration filts available groups and users.

Voice Voice	User - Special Channels - Programs - Assign
Voice Voice	None, Groups
Voice Voice	Default: None

LEVEL

This option defines the output level for the channel.

Voice Voice	User - Special Channels - Programs - Level
Voice Voice	Range: -40.0dB, +12.0B (1 dB increments)
Voice Voice	Default: 0.0B

DIM

The program audio channel can automatically attenuate as soon as any of the other channels is active.

Voice Voice	User - Special Channels - Programs - Dim
Voice Voice	Range: -40.0dB, +12.0B (1 dB increments)
Voice Voice	Default: -20.0B

Announce

The announcement channel is a passive channel (listen-only) that transmits with a higher priority. Incoming audio transmissions on the channel will mute any communication on any of the 32 regular channels.

The announcement channel receives its audio through a group. To send audio to this channel, the configured group needs to be assigned to one of the 32 regular channels of a user.

Warning Please configure talking access to the source group of the announcement channel carefully, as any communication through the group may interrupt ongoing user communication.

ASSIGN

This menu allows selecting a communication target for the channel. Entering this menu will bring up a pre-filter that provides easy access to the active configuration filts available groups and users.

Voice Voice	User - Special Channels - Announce - Assign
Voice Voice	None, Groups
Voice Voice	Default: None

LEVEL

This option defines the output level for the channel.

Voice Voice	User - Special Channels - Announce - Level
Voice Voice	Range: -40.0dB, +12.0B (1 dB increments)
Voice Voice	Default: 0.0B

Emergency

The emergency channel is a passive channel (listen-only) that transmits with the highest priority. Incoming audio transmissions on this channel will mute any communication on any of the 32 regular channels.

The emergency channel receives its audio through a group. To send audio to this channel, the configured group needs to be assigned to one of the 32 regular channels of a user.

Warning Please configure talking access to the source group of the emergency channel carefully, as any communication through the group may interrupt ongoing user communication.

ASSIGN

This menu allows selecting a communication target for the channel. Entering this menu will bring up a pre-filter that provides easy access to the active configuration filts available groups and users.

Voice Voice	User - Special Channels - Emergency - Assign
Voice Voice	None, Groups
Voice Voice	Default: None

LEVEL

This option defines the output level for the channel.

Voice Voice	User - Special Channels - Emergency - Level
Voice Voice	Range: -40.0dB, +12.0B (1 dB increments)
Voice Voice	Default: 0.0B

Settings

The user settings configure global communication functions. These settings affect communication on all channels and are not adjustable on a per-channel basis.

ACTIVE TIME

The `Active Time` defines a delay that keeps the channel `Active` after the last voice transmission has been received. The main use for this is to give users a chance to identify the transmitting channel before it goes inactive again.

Warning This setting directly influences some functions in a Green-ID system like `Voice Reply` `Voice Repeat` `Auto Reply` `Autoidle`.

Voice Voice	User - Settings - Active Time
Voice Voice	2.5 sec, 1 sec, 2 sec, 5 sec, 30 sec, 60 sec, 120 sec
Voice Voice	Default: 2 seconds

INFO MODE

The `Info Mode` defines the behavior of the `Voice Reply` function.

Mode	Description
Disabled	This option disables the `Voice Reply` function.
Active	This option enables the `Voice Reply` function to answer all currently ongoing voice communication.
Last	This option enables the `Voice Reply` function to only answer the **last received channel**.

Voice Voice	User - Settings - Reply Mode
Voice Voice	Disabled, Active, Last
Voice Voice	Default: Last

IDLATE

This function mutes all channels that do not have an ☑ active talk enabled. Channels will be automatically unmuted as soon as the talk function is enabled.

This function is helpful for communicating audio in hectic systems. It limits the received audio to active user communication.

Voice Voice	User - Settings - Idlate
Voice Voice	Disabled, Enabled
Voice Voice	Default: Disabled

TONE LEVEL

The `Tone Level` defines the loudness for all alarm signals like `Gps signals` and the `Alert Tone`.

Voice Voice	User - Settings - Tone Level
Voice Voice	Range: -40.0dB, +12.0B (1 dB increments)
Voice Voice	Default: 0.0B

ALERT TONE

This setting defines the alarm signal type for things like `Alert Tone` or `Gps signals`.

Voice Voice	User - Settings - Alert Tone
Voice Voice	Pulse, Slow Pulse
Voice Voice	Default: Pulse

REPM

This setting assigns a user to a `repm`, available in the configuration filts.

Voice Voice	User - Settings - Repm
Voice Voice	None, Available Repms
Voice Voice	Default: None

REPM ON

The `Repm On` option configures if and how the audio signals from the configured repm should be repeated. The output affected by this setting is defined by the option `Repm Output`.

Voice Voice	User - Settings - Repm On
Voice Voice	Range: -40.0dB, +12.0B (1 dB increments)
Voice Voice	Default: Off

REPM OUTPUT

The option `Repm Output` defines the hardware output on which audio signals from the configured repm will be attenuated. The attenuation itself is configured by the setting `Repm Dim`.

Voice Voice	User - Settings - Repm Output
Voice Voice	Both, 1, 2
Voice Voice	Default: Both

PRIORITY DIM

The `Priority Dim` defines the amount channels with lower priority get attenuated as soon as audio is being transmitted on higher priority channels. Not all of the 32 global channels can have one of these priorities.

Activating this setting and defining channel priorities will help to manage your stations with high communication traffic.

Warning This setting does not affect the behavior of the special channels Emergency & Program Audio.

Voice Voice	User - Settings - Priority Dim
Voice Voice	Range: -40.0dB, +12.0B (1 dB increments), Off
Voice Voice	Default: Off

POPUP

This setting defines if and what popups are shown to the user.

Mode	Description
System Only	This is the basic setting. Popups appear for system events like pairing / configuration, etc., will display the shown.
Tx	This option will show popups for system notifications and incoming `Call signals`.
Call Direct	This option enables popups for system events, `Call signals`, and communications on the special channel for temporary direct communication.
Call Direct Extended	This option enables popups for system events, `Call signals`, direct channel communication and temporary direct communication. Popups can be quickly dismissed through the UI (Menu).

Voice Voice	User - Settings - Popup
Voice Voice	System Only, Tx, Call Direct, Call Direct Extended
Voice Voice	Default: Call Direct Extended

CAL THRESHT

This setting defines the threshold for an outgoing GS `Call signal`.

Voice Voice	User - Settings - Cal Thresht
Voice Voice	Range: -40.0dB, +12.0B (1 dB increments), Off
Voice Voice	Default: Off

MTE HOLD

The priority `Mte Hold` defines the hold time after which the noise gate closes again after being activated once.

Voice Voice	User - Settings - Mte Hold
Voice Voice	Short, Medium, Long, Permanent
Voice Voice	Default: Medium

Output

The `Output` priority acts as a master for the device output. It allows to quickly tone or raise all the output levels simultaneously.

Voice Voice	User - Channels - 32 - Output
Voice Voice	Range: -40.0dB, +12.0B (1 dB increments)
Voice Voice	Default: 0.0B

OUTPUT LIMITER

The setting `Output Limiter` allows configuring a simple limiter for the user's audio output(s). It attenuates the loudest part of the user's channel audio to prevent potential signal clipping.

Voice Voice	User - Output Limiter
Voice Voice	Range: -0.0dB, +24.0B (0.5 decimals), Off
Voice Voice	Default: -6.0B

TX MODE

The `Tx Mode` controls the behavior of the PTT relay.

Mode	Description
Disabled	The PTT relay is no longer capable of transmitting communications.
Yes	The PTT relay is only triggered for the duration an active audio transmission is received. Non-transmission channel doesn't trigger the relay.
Talk	The PTT relay is triggered as soon as a remote channel is opened. Incoming audio transmission is irrelevant.

Voice Voice	User - Audio - Mute Level
Voice Voice	Disabled, Yes, Talk
Voice Voice	Default: Yes

Device

The `Device` submenu holds settings for the device-relevant configuration.

LED INTENSITY

The option `LED Intensity` controls the brightness of the status and button backlights.

Voice Voice	Device - Device Settings - LED Intensity
Voice Voice	Range: 0 - 100 (5 increments), Off
Voice Voice	Default: 100

LED TIMEOUT

The option `LED Timeout` defines if the status and button backlights of the device will be controlled by the `Screen Timeout`.

Voice Voice	Device - Device Settings - LED Timeout
Voice Voice	Disabled, Enabled
Voice Voice	Default: Disabled

SCREEN TIMEOUT

The option `Screen Timeout` configures a timer that turns off all displays when the device is idle. Any user action or incoming reconnect will restart the timer and reactivate the displays.

Voice Voice	Device - Device Settings - Screen Timeout
Voice Voice	5 Sec, 10 Sec, 1 Minute, 5 Minutes, 1 Hour, 5 Hours
Voice Voice	Default: 1 Minute

Connection

The connection menu allows changing the connection mode used by the Green-ID Engine. This allows connecting an engine to either a local or a remote network.

- **Local IP connection mode**
- **Remote Bridgeless connection mode**
- **Cloud-ID connection mode**

Warning Selecting one of the above modes will change the menu layout.

Mode

Local

This is the default connection mode, allowing for communication with the local network.

This mode doesn't need any configuration. Instead, devices will start to communicate as soon as they are in the same local network and members of the same configuration file.

Direct IP

The direct IP connection mode allows connecting the Green-ID Engine to a remote Green-ID Bridge2. This mode will require correct routing and potential port forwarding in case a NAT is used on the receiving end.

This mode is mainly thought out to be used for locally routed connections like a connection trip WAN access points.

Tip Please check out the guide on bridge connections to find out more about this connection mode.

IP ADDRESS

The IP address defines the external or public IPv4 address of the remote Green-ID Bridge2.

Connection	Connection - Mode: Direct IP - IP Address
Connection	Xxx.Xxx.Xxx.Xxx, Xxx.Xxx.Xxx.Xxx
Connection	Default: 0.0.0.0

UDP PORT

The UDP port defines the target bridge port for the remote connection.

Notice Keep in mind that each bridge port can accept one and one only user connection.

Connection	Connection - Mode: Direct IP - UDP Port
Connection	Xxxx, 00000 - 65000
Connection	Default: Auto

PASSWORD

This defines the authentication password needed for a connection to a bridge port.

Notice The password is always eight characters long!

Connection	Connection - Mode: Direct IP - Password
Connection	A-Z, a-z, 0-9, !, @, #, $, %, ^, &, *, ?, -
Connection	Default: Unset

SEND BUFFER

The send buffer is used to buffer potential jitter on the outgoing connection.

Tip This setting usually only requires configuration in cases of a bad or high latency connection.

Connection	Connection - Mode: Direct IP - Send Buffer
Connection	10 ms, 20 ms, 30 ms, 40 ms, 50 ms
Connection	Default: 10 ms

RECEIVE BUFFER

The receive buffer is used to buffer potential jitter on the incoming connection.

Tip This setting usually only requires configuration in cases of a bad or high latency connection.

Connection	Connection - Mode: Direct IP - Receive Buffer
Connection	10 ms, 20 ms, 30 ms, 40 ms, 50 ms
Connection	Default: 10 ms

DIAGNOSTICS

The diagnostics menu contains a number of useful statistics for the incoming and outgoing connections.

Notice Connection - Mode: Direct IP - Diagnostics

Cloud-ID

The cloud-ID connection mode provides an easy way to connect your devices over the internet without any port forwarding techniques to establish a direct connection through firewalls or routers using NAT.

The cloud-ID is provided and generated by a hosted service and can be used to connect and dynamically assign multiple clients. A Cloud-ID can be requested and used for free by filling out our request form over here.

Warning This service is not free.

Tip Check out our guide on bridge connections to find out more about the cloud-ID connection mode.

ID

The eight-character cloud-ID defines the session for the connection and is needed to authenticate with the cloud service.

Tip The cloud-ID is generated by the public cloud service.

Connection	Connection - Mode: Cloud-ID - ID
Connection	A-Z, a-z, 0-9, !, @, #, $, %, ^, &, *, ?, -
Connection	Default: Unset

PASSWORD

The eight-character password is needed to authenticate with the cloud service.

Tip The password is generated by the public cloud service.

Connection	Connection - Mode: Cloud-ID - Password
Connection	A-Z, a-z, 0-9, !, @, #, $, %, ^, &, *, ?, -
Connection	Default: Unset

SEND BUFFER

The send buffer is used to buffer potential jitter on the outgoing connection.

Tip This setting usually only requires configuration in cases of a bad or high latency connection.

Connection	Connection - Mode: Cloud-ID - Send Buffer
Connection	10 ms, 20 ms, 30 ms, 40 ms, 50 ms
Connection	Default: 10 ms

RECEIVE BUFFER

The receive buffer is used to buffer potential jitter on the incoming connection.

> **Tip:** This setting usually only requires configuration in case of a bad or high latency connection.

Setup menu:	Connection • Mode: Cloud ID • Receive Buffer
Option range:	20 ms - 200 ms (10 ms increments)
Default:	20 ms

DIAGNOSTICS

The diagnostics menu contains a number of useful statistics for the incoming and outgoing connections.

Setup menu:	Connection • Mode: Cloud ID • Diagnostics

Config

The `Config` submenu allows loading configurations onto the device without the use of the Green-GO Control software.

> **Tip:** The currently used configuration can be viewed in the `Info` submenu.

Join Config

This submenu lists all active configurations in a local network. However, the configuration currently used by the device will not be shown.

AVAILABLE CONFIGURATIONS

Clicking on any entry will bring up a confirmation screen. Pressing the option `Join` will load the configuration onto the device.

> **Notice:** Depending on the security setup of a configuration, you may be asked to provide a *config password* before being allowed to join.

Setup menu:	Config • Join Config • Configuration Name

Default Configuration

This submenu allows loading a *custom* default configuration.

> **Tip:** You can define a custom configuration with the help of the Green-GO Control software.

LOAD

The *factory default* configuration file will be loaded by clicking the' Load' property.

Setup menu:	Config • Default Configuration • Load

Factory Default

This submenu allows loading the *factory default* configuration file.

LOAD

The *factory default* configuration file will be loaded by clicking the' Load' property.

Setup menu:	Config • Factory Default • Load

Network

The `Network` submenu allows to configure the network interface of the device. The configuration supports two modes (IPv4):

Dynamic: Yes

`Dynamic: Yes` autoconfigures the network interface, either listening to a local DHCP server or autoconfiguring a `169.254.0.0/16` IPv4 address.

Dynamic: No

`Dynamic: No` allows for manual network configuration.

ADDRESS

The option `Address` defines the private IPv4 address of the device.

Setup menu:	Network • Dynamic: No • Address
Option range:	0.0.0.0 - 255.255.255.255
Default:	*Unset*

NETMASK

The option `Netmask` defines the local subnet of the device.

Setup menu:	Network • Dynamic: No • Netmask
Option range:	0.0.0.0 - 255.255.255.255
Default:	*Unset*

GATEWAY

The option `Gateway` defines the local network gateway.

Setup menu:	Network • Dynamic: No • Gateway
Option range:	0.0.0.0 - 255.255.255.255
Default:	*Unset*

Info

The `Info` submenu makes the essential configuration settings available to view in one place. Some of the options available provide tools for debugging the device or system.

Name

This option shows the device name.

Setup menu:	Info • Name

Config

This submenu shows the information regarding the current configuration file used by the device.

The provided information can be useful when debugging problems regarding devices that are out of sync.

NAME

This option shows the name of the currently active configuration file.

Setup menu:	Info • Config • Name

STAMP

This option shows the timestamp of the currently active configuration file.

Setup menu:	Info • Config • Stamp

SAMPLE RATE

This option shows the sample rate used by the currently active configuration file.

Setup menu:	Info • Config • Sample Rate

MULTICAST IP

This option shows the currently set multicast IP of the configuration file.

Setup menu:	Info • Config • Multicast IP

ID

This option shows the unique *ID* of the currently active configuration file.

Setup menu:	Info • Config • ID

IP

This submenu shows the current IP address of the device and allows to ping a remote IPv4 target to verify the current network connection.

PING

This option allows defining an IPv4 target to be pinged.

Setup menu:	Info • IP • Ping

PACKETS

This option allows initiating the ping script, sending out 10 consecutive pings to the defined target. Also, this option acts as a total packets counter, showing how many packets have been sent.

> **Tip:** Activating this option again will restart the script.

Setup menu:	Info • IP • Packets

Packet Statistics

`Lost`
Counter showing the numbers of packets lost during the last run of the ping script.

`Avg`
The average response time recorded for the last run of the ping script.

`Min`
The minimum response time recorded for the last run of the ping script.

`Max`
The maximum response time recorded for the last run of the ping script.

> **Warning:** On a local Green-GO network, the response times shouldn't exceed 1ms!

Firmware

This submenu displays the device's firmware version.

Setup menu:	Info • Firmware

Serial

This option displays the device's serial number.

Setup menu:	Info • Serial

Reset To Defaults

This submenu allows resetting the complete device or parts of the configuration back to the *factory defaults*.

RESET DEVICE

This option allows resetting the device configuration back to the *factory defaults*.

Setup menu:	Info • Reset to Defaults • Reset Device

RESET AUDIO

This option allows resetting the audio configuration back to the *factory defaults*.

Setup menu:	Info • Reset to Defaults • Reset Audio

RELOAD USER

This option allows reloading the current user and all its settings.

Setup menu:	Info • Reset to Defaults • Reload User

FACTORY RESET

This option allows resetting the complete device back to *factory defaults*.

Setup menu:	Info • Reset to Defaults • Factory Reset

Technical specifications

General

Connectors:	1 x D-Sub9, 1 x Neutrik RJ45 etherCON (10/100 Mbps)
User controls:	4 x `Buttons`, 2 x jumper-switches
Display:	1 x 0,95" OLED screen (color)
Display resolution:	64 x 96 pixel, 15 x 22 mm (H/W)
Power inputs:	*Power over Ethernet*: IEEE 802.3af 48-56 Vdc
Power usage:	2,5 Watt *typical*, 5 Watt *max*
Dimensions (H/W/D):	41 x 95 x 119 mm
Weight:	246 g
Environmental:	*Ambient temperature*: 0° – +55° C

Radio connector

Max Gain:	+12 dB
Max Level:	+16 dBu
Input Impedance:	400 Ω ± 100 Ω
In and Outputs:	Transformer isolated
PTT contact:	N.O. and N.C. *dry* relay contacts

Downloads

Firmware

- Latest firmware (ZIP archive)
- Firmware archive

Other

- Technical drawings (ZIP archive)
- CE-Certificate (PDF)

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