GFPB 100 USER GUIDE

VERSION 1.0

Introduction

GFPB100 built with a high-performance system-on-a-chip platform to ensure high quality voice conversations, it is a dedicated systems targeted at applications for voice over IP service. With GFPB100, user does not require a computer to make and receive call through internet. To get started, all you need is a phone, power and a connection to internet.

This User Guide is providing simple information on the GFPB features and basic operating instruction.

Telephony Features:

- Message Waiting Indication – Visual and Tone Based
- Speed Dialing
- Three Way Conference Calling with Local Mixing
- Hook Flash Event Signaling
- Caller ID – Name and Number
- Call Waiting
- Call Forward – Unconditional
- Call Forward on Busy
- Call Forward on No Answer
- Call Transfer
- Anonymous Call
- Block Anonymous Call
- Do Not Disturb
- Call Return
- Repeat Dialing

Call Routing & Voice Service Features:

- SIP Support for Voice and Fax Over IP from Internet Telephony Service Providers
- High Quality Voice Encoding Using G.711, G.726, G.729 and iLBC Algorithms
- Recursive Digit Maps & Associated Call Routing(Outbound, Inbound)

Connecting Power to the Device

Connect the supplied 12-volt power adapter to the device and the wall outlet or working power strip. Only use the power adapter supplied with the original packaging to power the GFPB. Use of any power adaptor other than what was provided with the GFPB100will void the warranty and may cause the unit to not function at all or cause undesired operation.

Internet Connection Set-up and Configuration

Connect one end of an Ethernet cable to the INTERNET port and the other end of the Ethernet cable to an Ethernet port on your Internet router or Ethernet switch. By default, the GFPB will request an IP, DNS and Internet (WAN) Gateway IP address via DHCP.

PHONE port Set-up and Configuration

A phone has a very basic UI (User Interface) for I/O (Input/Output) of signaling or control messages.

The GFPB PHONE port supports input signaling and control messages comprised of: On Hook, Off Hook, Hook Flash, DTMF tones.

The GFPB PHONE port supports signaling and control messages comprised of: Caller ID/CWCID, MWI, DTMF/Tone, Ring, Pol-Rev, CPC, and Power Denial.

The GFPB100 PHONE port has a Maximum Sessions capacity of two (2). This is not configurable.

The GFPB PHONE port will reply BUSY to a new incoming call when:

- The PHONE port already has 2 calls in session.
- The PHONE port is ringing the phone
- The PHONE port is in a dialing or fast busy "Invalid" state
- The PHONE port is already in a FAX call

The GFPB100 PHONE port supports Call Waiting when a 2nd call is an inbound call:

- A Hook-Flash (or depressing the Flash button) invokes switching between two (2) calls
- When the GFPB100 PHONE port goes On-Hook this will end current call and invoke a ring for the holding call

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The GFPB100 PHONE port supports 3-way Calling when the second call is an outbound call.

On the first Hook-Flash during an active call the GFPB100 can make a second outbound call.

On the second Hook-Flash, the first call and the second outbound call are placed in a conference.

To remove the second conferenced party, invoke a third Hook-Flash.

When the GFPB100 goes On-Hook during a 3-way Call, this will become a transfer when 2nd (outbound) call is ringing or connected. If the 2nd (outbound) call does not succeed, e.g. no answer or busy, then the GFPB100 PHONE port can go to an On Hook state and will ring as the holding call is still on the line, or simply Hook-Flash to resume the first call.

The GFPB100 PHONE port can select from the following services to which it can complete a call: SP1 Service (SP1), SP2 Service (SP2), SP3 Service (SP3), SP4 Service (SP4).

End User Features Available on the GFPB100

Call Forwarding

Call Forwarding allows you to send incoming calls to another number of your choosing. Calls can be forwarded to a number reachable by the service. The following types of call forwarding are possible with the GFPB100:

Call Forward ALL: When you use Call Forward ALL, all calls are immediately forwarded to the number you indicate when you turn on the feature. To enable Call Forward ALL, from a phone attached to the GFPB100, dial *72. You will be prompted to enter the number to which the calls will be forwarded. Dial the number plus the # key and a confirmation tone will be heard. To disable Call Forward ALL, dial *73. A confirmation tone will be heard.

Call Forward on Busy: When you use Call Forward on Busy, all calls are forwarded to the number you indicate only when you are already engaged in a call with your phone attached to the GFPB100. To enable Call Forward on Busy, from a phone attached to the GFPB100, dial *60. You will be prompted to enter the number to which the calls will be forwarded. Dial the number plus the # key and a confirmation tone will be heard. To disable Call Forward on Busy, dial *61. A confirmation tone will be heard

Call forward on No Answer: When you use Call Forward on No Answer, all calls are forwarded to the number you indicate only when you do not answer the call with your phone attached to the GFPB100. To enable Call Forward on No Answer, from a phone attached to the GFPB100, dial *62. You will be prompted to enter the number to which the calls will be forwarded. Dial the number plus the # key and a confirmation tone will be heard. To disable Call Forward on No Answer, dial *63. A confirmation tone will be heard.

Caller ID – Name & Number

Caller ID allows you to see the number and (if available) the name of the person calling you. You can use this information to decide whether or not to answer the call. You must have a phone (or device) that supports caller ID to use this feature.

Call Waiting

Call waiting lets you take a second call that comes in when you are already on the phone with another party and not have to disconnect to take the new call. When you are on the line with the first party, you will hear a tone signaling you there is a second call coming in. To answer this call, press the "flash" button on your phone or depress and release the switch hook on the telephone. The first party will be placed on hold and you will be connected to the second party until you press the "flash" button or depress and release the switch hook again.

Since Call Waiting can interfere with fax calls already in progress, it is advised that you configure your fax machine to dial the Cancel Call Waiting code before it dials the destination fax machine.

3-Way Calling

3-Way Calling allows you to talk to two parties at the same time with everyone on a telephone at a different location. To use 3-Way Calling, when you are in a call with another party and want to add a second to the conversation, press the "flash" button or depress and release the switch hook on your phone. You will be presented with a second dial tone and the first party will be placed on hold. Dial the second party. When they answer, you will be able to inform them that you intend to connect them with the first party (now on hold) and have a conference. At this point press the "flash" button or depress and release the switch hook on your phone. This will connect the first party, the second party and yourself. You can all continue to talk together.

Call Transfer (Attended)

You can transfer a call to a third party using the attended transfer capabilities of the GFPB100. To use Attended Call Transfer, while in a call with the party who will be transferred, press the "flash" button or depress and release the switch hook on your phone. You will be presented with a second dial tone. The party who will be transferred will be placed on hold. Dial the transfer target. When the transfer target answers, you will be able to inform them that you intend to connect them with the party on hold. At this point press the "flash" button or depress and release the switch hook on your phone. This will connect the party to be transferred, the transfer target and yourself. You can continue to talk together, as this is now a 3-way call, or you can hang up the phone and the other two parties will remain connected.

Caller ID Block (Anonymous Calling)

Caller ID Block allows you to mask your name and number information from appearing on the phone you are calling. To use Caller ID Block for one call only, dial *67 and then the destination number. To

use Caller ID Block on a persistent basis, dial *81 from the handset attached to the GFPB100. All calls will use the Caller ID Block feature until you cancel the Caller ID Block. To cancel Caller ID Block, dial *82 from the handset attached to the GFPB100.

Note: This service feature requires ITSP support. While most ITSP services support this service feature, at present, Caller ID Blocking is NOT available with Google Voice service.

Automatic Call Back (Call Return)

Automatic Call Back, also called Call Return can be used to call back the last caller who called you without actually dialing their number. To use Automatic Call Back, from the phone attached to the GFPB100, dial *69. The GFPB100 will then attempt to use the previous callers Caller ID information to make the call.

Repeat Dialing

Repeat Dialing is useful when you call a number that is busy and you want to keep trying so that your call gets through when the far end is available. Repeat dialing will continue to try the last number until the GFPB100 device can complete the call or Repeat dialing is cancelled. To enable repeat dialing, from the phone attached to the GFPB100, dial *05 and hang up. To cancel repeat dialing, from the phone attached to the GFPB100, dial *06.

Anonymous Call Block

Anonymous Call Block allows you to block calls from incoming callers when there is no identifying caller ID name or number. Incoming calls will be presented with a busy signal. To use Anonymous Call Block, from the phone attached to the GFPB100, dial *77. To cancel Anonymous Call Block, from the phone attached to the GFPB100, dial *87.

Do Not Disturb

Do Not Disturb (DND) allows you to set the phone to immediately forward calls made to your GFPB100 to the number set-up as your voicemail number / account. If no voicemail account is set-up, the GFPB100 will return a busy signal to the caller until you turn off DND. To turn on DND, from a phone attached to the GFPB100, dial *78. To turn off DND, from a phone attached to your GFPB100, dial *79.

Message Waiting Indication – Visual and Tone Based

Message Waiting Indication allows you to be notified when there is a new voice message for you. The GFPB100 supports both Visual and Tone based Message Waiting Indication. With Tone-based Message Waiting Indication, you will know there is a message for you when you hear a “stutter” dial tone right when you first pick up the phone to make a call. Typically, this stutter tone will be removed once you listen to your message(s). Visual-based Message Waiting Indication will turn on a light or screen icon on

your phone (or phone base station) when there is a message waiting for you. Typically, this light or icon will go dark when you have listened to your new message(s).

Basic Operating Instruction

After the GFPB100 is configured with the ITSP service, user should be able to make and receive call with the telephone that's connected to the GFPB100 phone port.

GFPB100 phone port is acting no difference in comparing with any traditional PSTN line.

When user goes Off-hook the phone handset, user should hear dial tone and dial the calling party number.

User should hear ring back tone or busy tone before the calling party is answer.

After the call is answer, there will be a two way audio with high quality.

Simply On-hook the phone handset to end the call.

Compliance
FCC Notice
This device complies with part15 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.

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.

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